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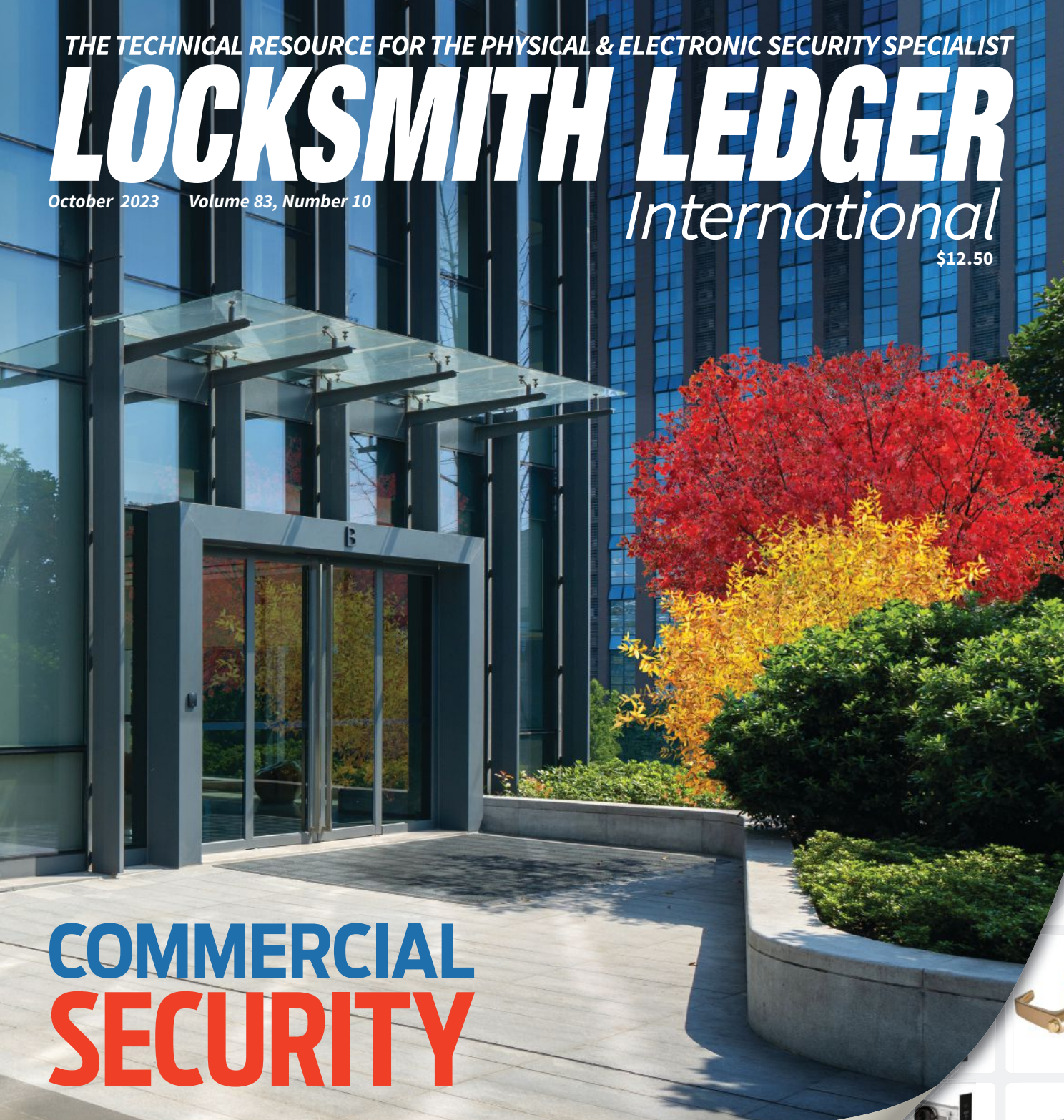

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Back to Basics:
Locksmith Ledger and contributor Wayne Winton introduce our Back to Basic series of training articles geared toward future locksmiths and locksmiths who are just starting out in the business. The first topic is pinning a pin tumbler lock, and the accompanying video includes step-by-step instructions. Go to the article at www.locksmithledger.com/53068086 and scan the QR code or follow the link to watch on Youtube.

Calendar of Events:
Looking for a security industry event to attend? Our Calendar of Events lists upcoming in-person and online educational opportunities. View them at www.locksmithledger.com/events.

Top Products:
We list our top products and articles from 2022 based on Google Analytics reports of our readers' clicks. Find links to our top products at www.locksmithledger.com/21285920. And stay tuned for the top products of 2023, which will be featured in our December issue.

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Installation Focus:
Check out our two-part series on large-scale Schlage AD-400 installation online at locksmithledger.com/53056156 and www.locksmithledger.com/53058914. In August, we installed a Lockly Guard standalone electronic access control on a narrow stile aluminum glass door. Read the article watch the video at www.locksmithledger.com/53064317. And read our article on rekeying an ABUS 83-50 Series padlock at https://locksmithledger.com/53066276.

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by Paul Ragusa,
Senior Editor

State of the Industry Coming!

As you read this, we here at Locksmith Ledger are busy going over the results of our State of the Industry survey, which went out to the locksmith community in September to get their feedback on several key topics around their business, including market and product areas where locksmiths are seeing the most growth. The report also looks at where locksmiths buy their products, what they look for in a distributor, and what factors are most important to them, beyond price, of course. What I really like about the survey is we pick locksmiths' brains, no pun intended, on what technologies and trends they feel are most relevant to them.

With COVID somewhat in our rearview mirror, and supply chain issues beginning to ease a bit, this year's state of the industry is also focusing on how much the workplace has changed, with more hybrid work environments becoming the norm, and many more employees working from home full-time. In this month's cover feature (see page 10), we are seeing just that, as this shift in the workplace has changed the way companies and big corporations perceive security.

As Joshua Sands, owner of Key City Locksmith and Security, based in Kansas, points out, COVID changed the way people looked at security, and in the process hastened the adoption of electronic locks and connected technologies like video analytics and artificial intelligence (AI). "There was a hard to push to electronics, but it wasn't necessarily affordable on the residential side, and the commercial side, while they could afford it, they didn't spend money unnecessarily, especially if they perceived it as a convenience factor. Now, because of COVID, corporate has changed drastically — no more keys — too many people are not coming into the office, or don't come into work steadily, or there's high turnover … so many factors."

Another area we are looking at in this year's state of the industry report is hiring and retention. Where are tomorrow's locksmiths coming from and what will they look like in terms of skills and abilities? And how will this next generation influence and change the locksmith industry?

"I'd like to see a bigger push into the electronic side of things," says Sands. "My focus as the Director of Education Missouri Kansas Locksmith Association is on providing training so it's not so scary to other locksmiths out there. I see a big resistance to the electronic world … But it's coming, you know, so get ready for it or get left behind because in the next 20 years or so, you won't be able to pay your bills just doing rekeys and locking. So, you've got to know some basic electronics."

With this shift to electronic access, it will be interesting to see the State of the Industry findings in the November issue.

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by Paul Ragusa

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» Cloud-based access control and the rise of AI is helping automate buildings.

Commercial Security Goes High-Tech

The rise of electronic locks, cloud, AI and automation is transforming commercial spaces

In just a few years' time, the terms "remote" and "hybrid workforce" have become a part of our vernacular, as many companies pivot to the new normal of having some, and in many cases, all their employees working remotely from home. This has created a shift in how companies, property owners and businesses are securing their commercial building spaces.

As Joshua Sands, owner of Key City Locksmith and Security, based in Kansas, points out, COVID changed the way people looked at security, and in the process hastened the adoption of electronic locks and connected technologies like video analytics and artificial intelligence (AI). "People didn't want to touch things, which gave a bigger push for automated systems," Sands points out. "More places needed security systems and security systems got more complex because now you have remote jobs, so your storefront may still work there, but it's more of a skeleton crew now, or more mobile-based pick-up and delivery."

» Joshua Sands

Sands is smart to point out that what was maybe prohibitive budget-wise in the past,

is now becoming an operational expenditure (OPEX), not an afterthought, since COVID.

"There was a hard to push to electronics, but it wasn't necessarily affordable on the residential side, and the commercial side, while they could afford it, they didn't spend money unnecessarily, especially if they perceived it as a convenience factor. Now, because of COVID, corporate has changed drastically – no more keys – too many people are not coming into the office, or don't come into work steadily, or there's high turnover … so many factors."

» Antoinette King

Antoinette King, founder at Credo Cyber Consulting LLC, and director regional sales east and head of cyber convergence at i-PRO Americas Inc., agrees that COVID pushed everyone's acceptance of new technologies such as the cloud, AI, biometrics, and automation.

"Yes, [COVID] definitely fast tracked it," says King, who has also spent time at Axis Communications, giving her a unique perspective into the integration of access control, video surveillance and cyber hardening. "Before COVID, zero trust was this mythical thing that nobody thought we could achieve. And then COVID hit and the next thing you know, everything's a zero-trust environment. So, it was like all these people said, 'we can't do that, there's no way, we don't have the funding,' and then, magically, the wand was waived and zero trust was real. I do believe that out of necessity comes innovation, and that's exactly what happened."

Getting High-Tech

Advancements in technology, such as the use of edge analytics in cameras, and AI, are not only helping to verify what is going on in and around the perimeter and doors, but also automating a response.

"AI technology is giving people the opportunity to be more proactive," says King. "So, objects left behind, scene change, loitering, things like that, whereas before we were using AI more for forensic search. So, before it was more reactive, which I think is important and it's a big part of our ecosystem in terms of being able to do faster searches and solve crimes and things like that much faster. But now, AI is giving us the opportunity to also be proactive, not only from a security perspective, but from a customer

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experience perspective. For example, we're seeing specifically with some of the i-PRO Analytics, for example, in Europe they're using the scene change analytic for stocking shelves at a grocery store, so it is tied to all kinds of things that could be important to a business."

» Smart locks are helping to create more frictionless, yet secure, commercial spaces.

PHOTO: SALTO SYSTEMS

Sands agrees that there is an increasing need for "artificial intelligence and security to work side by side with your security hardware so that you can leave your business unattended without risking security," he says. "And cameras and alarms are great, but in the past, they've always been just a notifier; now, with the integration of AI, our systems specifically that we sell can let you know, of course, that something's happening, but also automatically determine what type of crime is being committed. Is this arson? Is this a burglary? An intruder?"

He continues, "You know what's going on now without even asking. AI can determine what type of response is needed and automate a response, so if the building is on fire, to call the fire department, or if there is a person trying to break into the front door, to call the police."

Systems are so complex today that they can not only see that a person with a concealed firearm is coming into the building but also understand that there is a need to escalate the situation to the police. "You'll still be notified, of course, but instead of notifying you and then notifying the police or local agencies and letting them determine it, our cameras and security systems are smart enough to make that determination for them and let them know exactly what's going on," Sands explains.

This gives the police and other emergency personnel much more information than ever before, allowing them to respond in a timelier and more precise manner, where seconds can make all the difference.

"We have seen through the industry the utilization of AI in schools," says Sands, who notes that the combination of cameras, locks and notification systems tied to AI, for example, can help determine much sooner if an assailant has a weapon, and what type of weapon it is, etc., many times with more accuracy that the human eye.

King agrees, noting, "It's really incumbent on us as the professionals to be able to tell that story around the value of using the technology to supplement the human element of security because we just don't have enough human resources at this point." She astutely points out that in New York City, for example, the police force has been drastically reduced since pre-COVID.

Technological advancements have also led to a decrease in false alarms, an ongoing bugaboo for many cities, spurring never-ending increases in fines for businesses and building owners who are repeat offenders.

"We've seen a huge reduction in false alarms," says Sands. "We started out with cities implementing false alarm projects, like Cry Wolf which is a big one that is used, and it has helped a little, but AI technology has really come a long way to help identify exactly what's going on."

Mechanical Still Needed

While there is a continued push toward electronic access that is integrated with other technologies, Sands is still seeing a huge need for mechanical access, not only to make sure the right locks are installed and working properly, but also meet state or federal regulations. For example, Sands is seeing a big demand for stronger security measures at medical cannabis dispensaries, due not only to stronger regulations but also to prevent theft. This has spurred increased efforts to fortify all doors of a building.

"That's actually written into a lot of laws and many jurisdictions I've researched in the areas we work require on many of your exterior doors that are not to the front of the building — rear entrances or exits — that the Trident locking device be put in place, not just

» Securitech's Trident device is popular for providing high security for side and back doors.

PHOTO: SECURITECH

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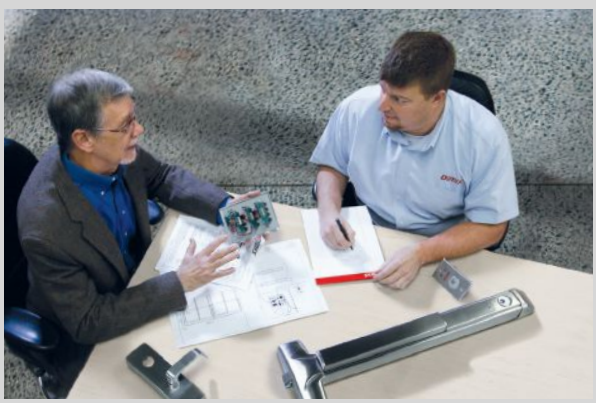

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a lever or a mortise mechanism," notes Sands. "We've installed a lot in cannabis places, cell phone stores, retail, and other locations, for example, that require a higher level of security. So, electronic access is great, but there's still a huge demand on the mechanical side, and as a result we've gotten a lot more progressive with the mechanical security solutions and options."

Education and Training Key

As Vice-President and Director of Education for the Missouri-Kansas Locksmith Association, Sands works with locksmiths who are interested in expanding their knowledge of electronic locks and systems.

"I see a big resistance to the electronic world," says Sands. "But it's coming, you know, so get ready for it or get left behind because in the next 20 years or so, you won't be able to pay your bills just doing rekeys and locking. So, you've got to know some basic electronics."

He continues, "I'd like to see a bigger push into the electronic side of things. My focus as the Director of Education Missouri Kansas Locksmith Association is on providing training so it's not so scary to other locksmiths out there. So, (we are) training locksmiths and business owners here in the Kansas City area on how to install some of these systems better. Even some of the simple stuff, like a continuous hinge. We just did a class a month ago, and several people had never installed one, and that's been around for 50 years."

» The use of biometrics as a credential is becoming more widespread.

PHOTO: 190701911 | IAREMENKO | STOCK.ADOBE.COM

In addition to reinforced door hardware like Securitech's Trident device on doors, Sands is seeing requirements for stronger safes for cannabis facilities. "In the last five years, in the cannabis industry, a lot of states are starting to dictate the type of safe that is needed," he explains. "We are talking about really good safes – like TL-30 safes that jewelry stores and banks use – are sometimes being required in certain areas of this country for cannabis facilities, just like the Trident on the doors."

Sands refers to a popular video on the company's website of a test being done on a door using the Trident that included a large truck backing into the steel door that had Trident. They were unsuccessful.

King is also a big proponent for education, giving a lot of her time to attend conferences and lead sessions on these important topics, as well as sit on several advisory boards and committees. She was recently recognized as one of the top 100 cybersecurity influencers.

"What are we doing to invest in the education of our technicians and the people doing the installs to keep them up to par with what the industry is doing?" she asks. "Nothing! So, when they're installing the wireless locksets and the Bluetooth locksets, they're not putting any controls in place to prevent somebody from being able to go and intercept or steal that credential to unlock that door."

She continues, "And then there is the element of remote connectivity where we are starting to service products remotely, but then also be able to remotely see our cameras through phones and other applications, which started to introduce this layer of risk that nobody really was mitigating or paying attention to."

Future Credential

Because the industry is now integrating other solutions that are not security related, such as business intelligence-type of analysis, "identity and access management doesn't just mean a card presented at a door, but now that same credential potentially could get you into your computer and single sign-on and things like that," King explains.

Looking at a future credential that can be widely accepted and secure, King points to the Sentry biometric smart card from Sentry Enterprises as a direction she sees it all going. "I sit on their [advisory] board because I truly believe in their technology," she says. "What they have is self-sovereign identity, where all the credentials reside with the user, and their biometric unlocks the authentication and verification at the same time. I believe we're going to transition to that type of a universal, password-less credential that is cyber-hardened."

The goal, she asserts, is "to end up frictionless."

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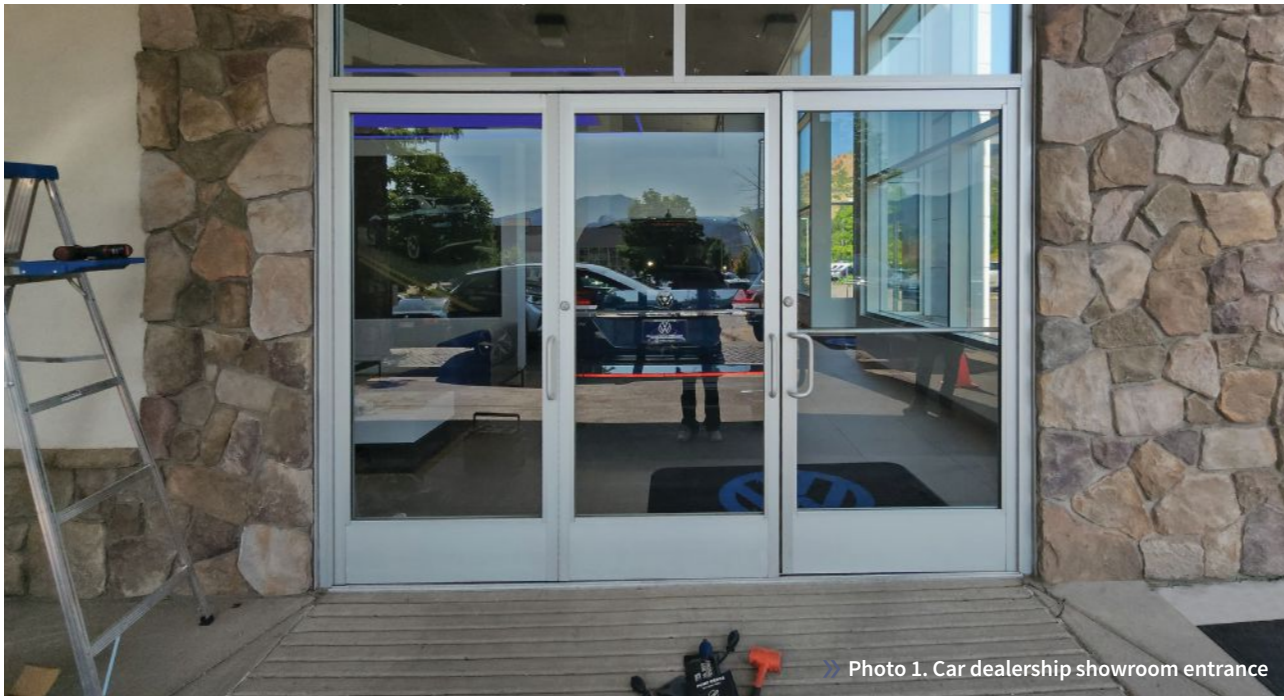
by Wayne Winton



» Photo 1. Car dealership showroom entrance

Auto Dealership Job: No Cars Involved!

Large drive-in showroom doors get a continuous hinge upgrade

Today's jobsite involves two doors that are attached together at a car dealership **(Photo 1)**. One butt-style continuous hinge is mounted on the left door, but unfortunately it is not holding the door up all the way. We've got about a three-quarter of an inch – maybe more – of play up in the top. **(Photo 2)**

Note that this opening is two doors put together **(Photo 3)**. They've actually sandwiched two doors and made them into one. Why they wanted to do that, I don't know. I guess it was cheaper than having one large door. The opening needs to be wide enough for them to drive vehicles into the showroom.

We're going to remove the butt hinge and put a surface-mount continuous hinge on it, and hopefully that will take care of the problem.

The two larger doors (acting as one) shut and lock in place and then the single door on the right also locks.

This is going to be a complicated project because of the length of the doors and the weight of the doors. This is also a great opportunity to sell continuous hinges to car dealerships.

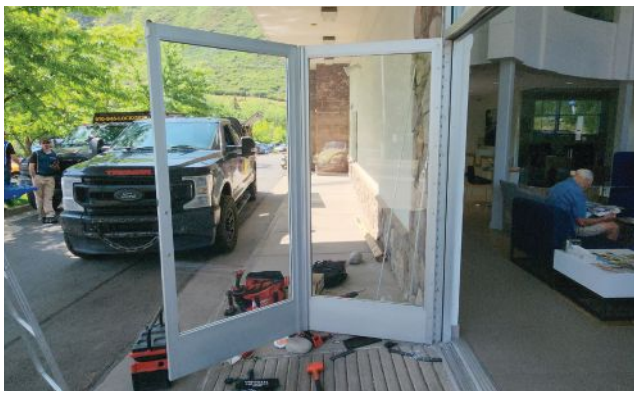
We have the frame tied up all the way tight along the top edge now and we have our proper reveal between the two doors. You'll notice the giant gap on the left. With the butt hinge that we are replacing, there is no adjustment for that.

The Select SL57 is the only hinge that will allow us to have a tapered reveal in that side and actually compensate for the frame being out of square.

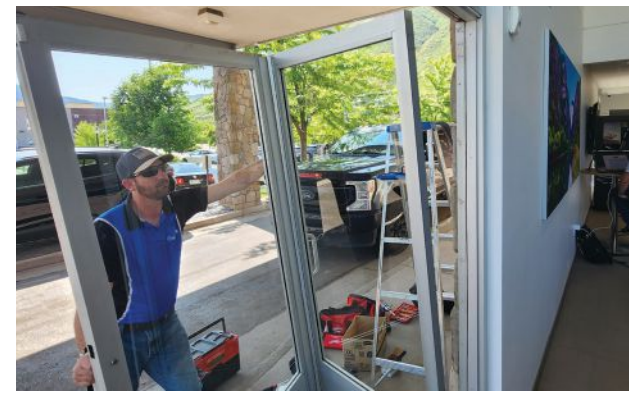
To watch a video of this installation, scan the QR code or go to https://youtu.be/wAkwocoowd8?si=sTSF-g8N1wX7u2OAP

» Photo 2. Gap at top between door and frame

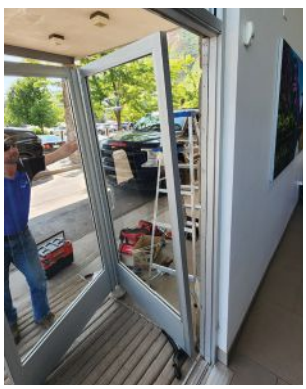
» Photo 3. Two doors joined together as one large door



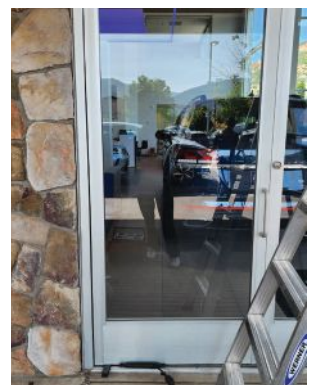
» Photo 4. Ready to begin work



» Photo 5. Tilting the door out



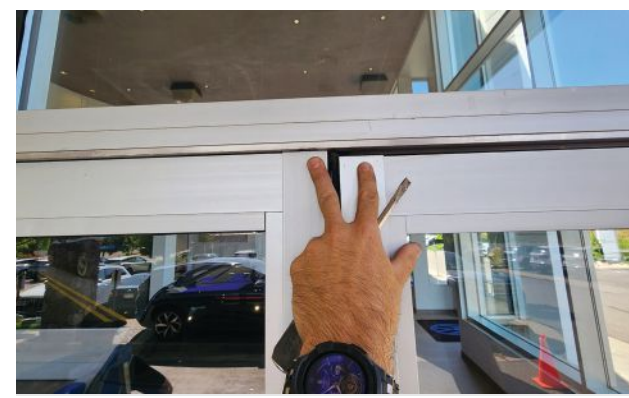
» Photo 6. Door tilts back with airbag placed



» Photo 7. Another view of the door and airbag

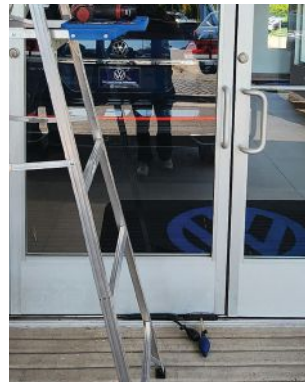
» Photo 8. Airbag closeup.

» Photo 9. Out of square frame



» Photo 10. Another view of the gap, before our hinge installation

» Photo 12. A complicated installation due to the weight of the doors



» Photo 13. Door propped with airbag

» Photo 14. Now in proper alignment

» Photo 17. Service department entrance door

» Photo 15. A double-door opening at the dealership

» Photo 16. All doors at this dealership were serviced

That is the problem here. This door is so heavy that it began to pull this frame out of square because we're hanging two doors on one hinge. Now we'll get this adjusted properly and fix it.

In **Photo 5**, Chris has the door. We didn't have to drop it fully; we just leaned it on its edge **(Photo 6)**. We started to get our airbags underneath and then we were able to remove the existing butt hinge.

The butt hinge we removed is a continuous hinge and, in theory, would work on this door. But it doesn't work when you can't account for the sloppiness and the out-of-squareness of the frame. That style of hinge is only going to follow the frame. If the frame is bent down, that's going to carry out that angle all the way across the horizon of the frame and the door.

The SL57 allows up to taper that gap and have a larger gap at the bottom and a smaller gap at the top to solve that problem.

That worked out well. We pushed the left side all the way up and it is perfectly flush and even. Testing the locks with the key, the doors open and reclose smoothly. Nothing hangs up or drags. Mission accomplished.

Again, car dealerships are great potential customers. These oversized doors are extremely common because they need to have the oversized doors to drive cars in and out of the showroom.

Photo 15 shows a solid glass door. The panel on the right is also a door. That took a Select Hinge SL57 heavy-duty continuous hinge, and now all of these doors are working flawlessly.

We installed continuous hinges across every external door at this dealership (Photos 16 and 17). The customer is extremely happy that we solved all their issues for a lifetime. They come with a lifetime warranty. For more information about Select SL57 continuous hinges, contact your locksmith distributor or visit www.select-hinges.com.

*Wayne Winton is the owner of Tri-County Locksmith Services, located in Glenwood Springs, Colorado. For more information, check out www.wayneslockshop.com and www.lockreference.*com.

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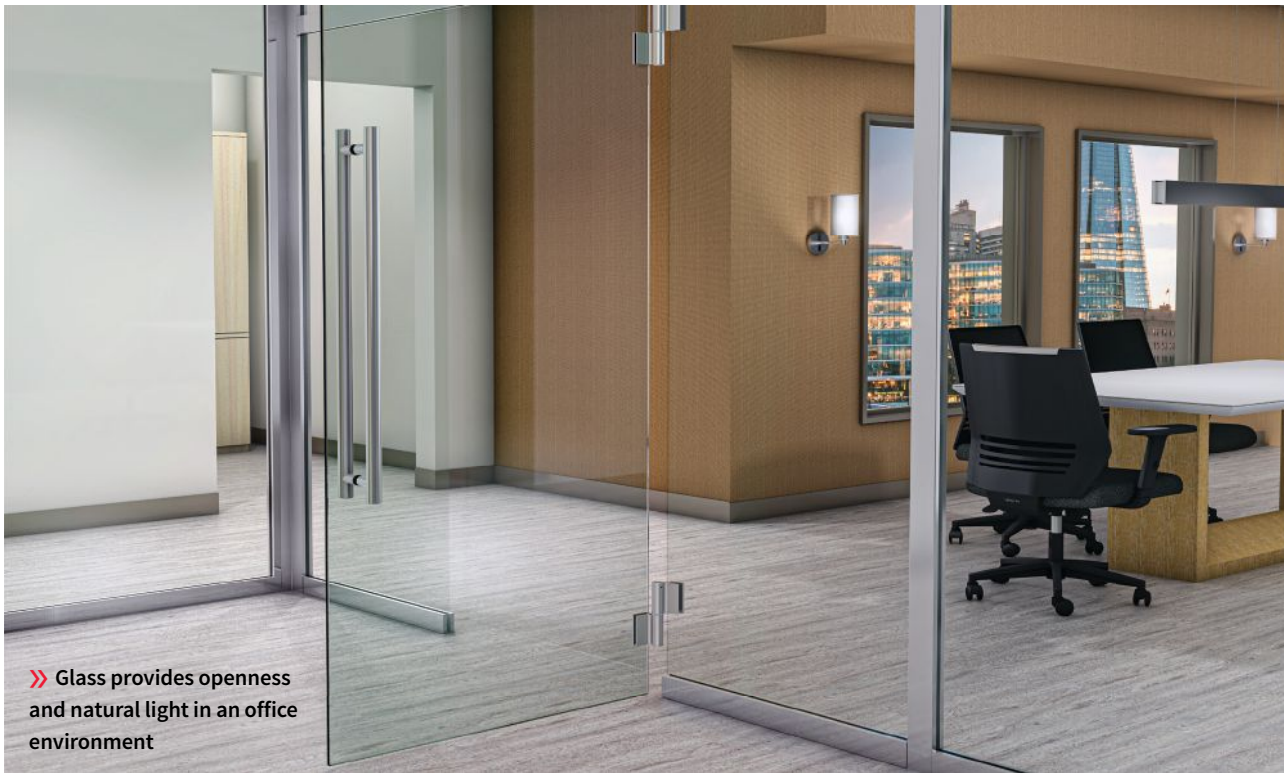
by Tyler Baker



» Glass provides openness and natural light in an office environment

PHOTOS: COURTESY OF ASSA ABLOY

Securing Glass Openings

Electrified hardware and access control solutions for glass on the rise

The transition from mechanical door locks to electrified openings continues to accelerate in the door security industry. The latest innovations make it more economically feasible and beneficial for property owners, facility managers, and security professionals to upgrade to keyless and electronic access control (EAC) using wireless and other technologies.

These advancements provide a much higher level of security, accountability, and access control efficiency. EAC data, for example, provides audit trails and information that integrate with key and asset management programs as well as building management software. Electrified hardware and EAC solutions are also now as practical for all-glass openings as they have been for hollow-metal and other traditional doorways.

Glass has long been a favorite material of architects and designers in construction, and there are many good reasons why. Glass brings elegance, light, comfort, and openness to a space. It is more durable and sustainable than most products, and it adds a sense of modernism that continues to stand the test of time. Openness and natural light in an office environment have been proven to boost mood, creativity and communication, which ultimately have a positive effect on productivity.

For retailers, it invites customers in with products on display and a peek into the store experience. In school settings, the benefit of increased daylighting and visibility helps connect students to others, nature, and the experiential environment, which can improve learning, behavior and test scores. Glass in healthcare settings adds a pleasing and calming aesthetic to clinical environments, increasing interaction that helps promote healing.

Seamless Solutions

From the architect's perspective, the goal is to create a seamless-looking glass environment. The challenge for designers as well as locksmiths is how to hang and swing glass doors using hardware that's unobtrusive yet rugged; functionally robust yet minimal, and still stylish.

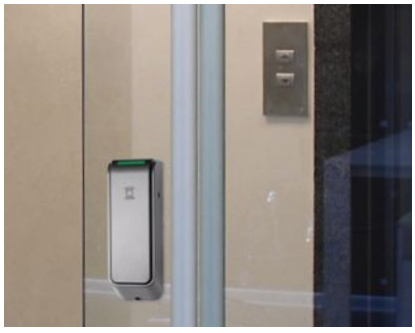
» ASSA ABLOY glass sliding door hardware

The call for more and larger glass materials in office, retail, and other spaces naturally means door rails, patch fittings, hydraulic hinges, and other glass door hardware must have the strength to safely hold and support heavier weight, comply with codes and operate smoothly and reliably over the products' lifetime. Along with dependable, robust functionality, stakeholders expect hardware to blend in seamlessly. This extends to mechanical and electrified components, too.

Electronic Access Control for Glass Openings

More and more electronic access control options are offered. Auto operators, electric strikes, maglocks, wireless readers, and other electrified mechanisms for glass applications are available in sleeker profiles.

For instance, the Securitron R100 Aperio® surface-mounted, wireless card reader offers an elegant way to extend access control to interior glass, stone, granite, or marble entryways. It also eliminates the need for a separate pedestal. Installation is easy, requires no drilling or pulling of wires, and can adhere in minutes. Surface-mounted solutions like this do a great job of harmonizing security with design.



» Securitron R100 Aperio® surface-mounted, wireless card reader

While many of these solutions focus on interior glass doors, innovative upgrades for exterior glass doors are also available. Advancements include electric strikes for migrating from mechanical to electrified openings like HES 9100 and 9200 Series surface-mounted solutions that work with tubular, vertical rod exit devices.

The Adams Rite DL100 wireless deadlatch offers yet another affordable retrofit option for glass and aluminum stile doors. Other options for glass openings include touch-sensing and wave-to-open devices for operating electromagnetic locks to make egress easy for everyone, including those with mobility issues.

For locksmiths, it's important to embrace such digital technologies for glass openings as well as traditional doors. Gaining expertise in these solutions presents increased opportunities to expand your ability to help end users migrate to even higher levels of security and, as a result, grow your business.

Sustainability

An increasing number of end users, engineers, architects and construction professionals worldwide believe sustainability is a high priority and are looking for sustainable attributes and listings when selecting building materials for their projects. That's one of the reasons glass is more popular than ever. Along with being 100% recyclable, it doesn't require repainting or heavy chemicals to clean and maintain. Insulated glass, for example, helps keep indoor temperatures more even and comfortable.

Demand for more sustainable building materials is also why more door hardware is being developed with sustainability fully in mind and manufactured with better and healthier ingredients to minimize environmental impact. Designing door security solutions (including glass hardware) that are more compact and lighter in weight helps make them safer to install, reduces packaging materials and carbon use during transportation, and means fewer materials that have to be recycled or scrapped.

Other notable advancements in electrified hardware include greater energy efficiency and automatic door openers that can generate and store their own power.

» ASSA ABLOY Hydraulic hinges for glass doors

Proactive innovation and continuous improvement momentum are huge factors in why glass and other advanced door hardware is in ever higher demand. It's what the industry expects today. We're persistently working on extending the same type of functionality available for hollow metal door solutions to glass applications.

Glass manufacturers, of course, also continue to make strides in developing even more energy-efficient products. You'll also be seeing them integrate new impact-resistant advancements to better protect against storm damage, intruders, and attacks.

All-glass design continues to grow. And the door security industry is well-positioned to forge ahead with new glass mechanical, electrified and electronic access control solutions right along with it.

Tyler Baker is Dir. of Business Development, Glass & Aluminum Solutions, ASSA ABLOY Door Security Solutions.

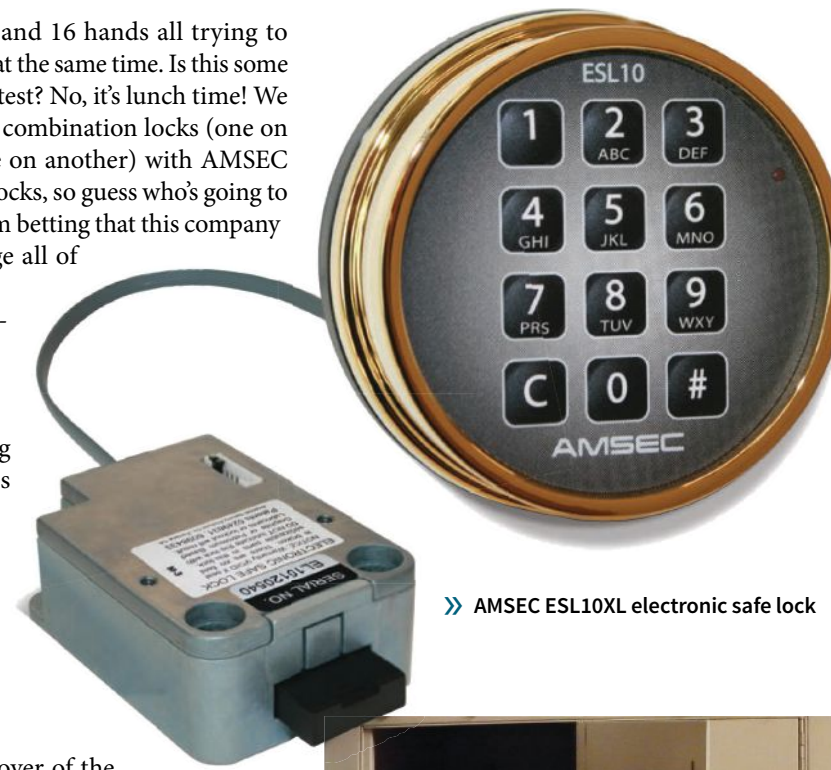
by Michael C. Tritel

Delete the Dial: Safe Lock Retrofit

Combination dial safe locks are replaced with digital keypads

Envision eight people and 16 hands all trying to open these eight safes at the same time. Is this some sort of TV reality contest? No, it's lunch time! We replaced two of these combination locks (one on this nest of safes, one on another) with AMSEC ESL10XL digital safe locks, so guess who's going to get their lunch first. I'm betting that this company will eventually change all of these safes to digital.

Replacing a combination dial with a digital keypad can be a bit tricky, especially if you're dealing with exterior handles or re-lockers, but this particular application is about as simple as it gets. The whole change-over takes only a few minutes.



» AMSEC ESL10XL electronic safe lock

Step by Step

- Remove the back cover of the existing lock.
- Remove the spline key (careful not to break it)!
- Unscrew the dial from the drive cam.
- Remove the four lock body screws.
- Remove the dial ring.
- Run the new wire.
- Install the new mounting plate. Note that the new lock comes with screws, and only uses three mounting screws.
- Insert the batteries and plug in the keypad.
- Attach the keypad with a slight turn clockwise.

Program and test the lock with the door open, then test the lock with the door closed. Programing these locks is very simple with the short instructions that are included in the box.

Michael Tritel is the owner of Lively Locks & Dead Bolts. He can be reached be email at livelylocks, tritel@gmail.com

» Photo 1. Here's one "nest" of tiny vaults

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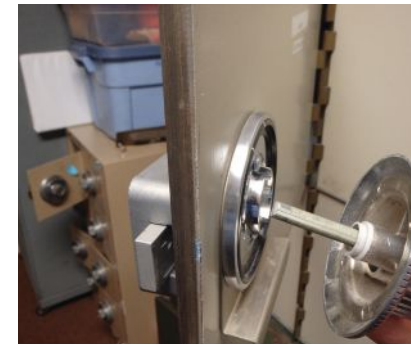
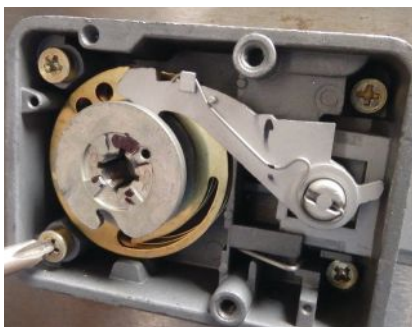
» Photo 2. Remove the back cover of the existing lock

» Photo 3. Remove the spline key (careful not to break it!)



» Photo 4. The dial can now be unscrewed from the drive cam



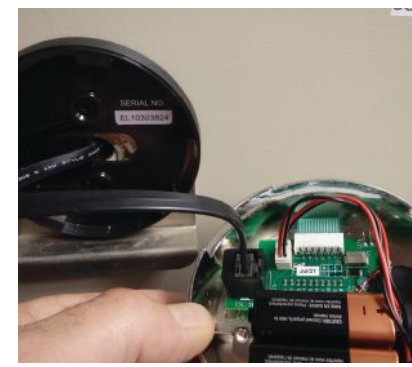
» Photo 5. Remove the four lock body screws

» Photo 6. Remove the dial ring

» Photo 7. Run the new wire

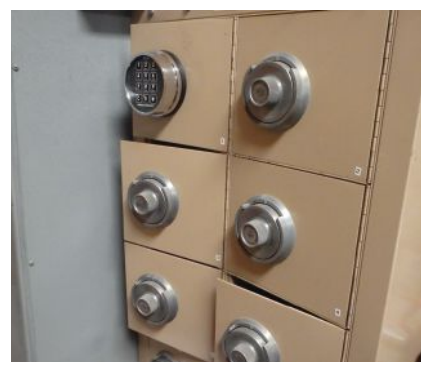
» Photo 8. The new lock comes with screws, and only uses three mounting screws

» Photo 9. Install the new mounting plate



» Photo 10. Insert the batteries and plug in the keypad

» Photo 11. Attach the keypad with a slight turn clockwise



» Photo 12. Job complete

» Photo 13. An AMSEC ESL10XL

It's Easier to Break Through the Wall than a Medeco Lock

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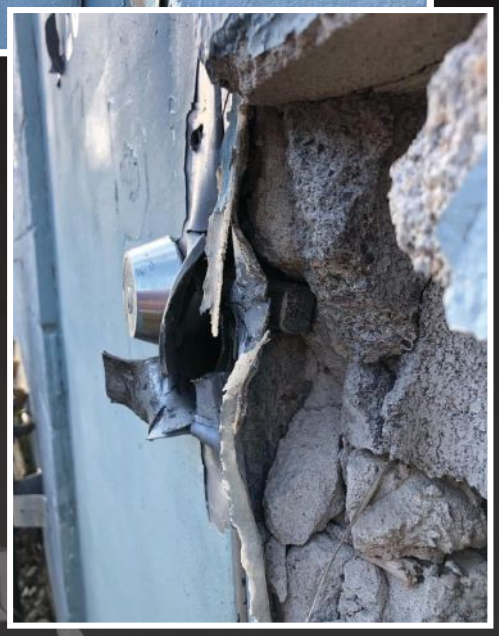

UL437 listed. ANSI/BHMA A156.5 and A156.30 certified

Lock images courtesy of Ryan Ritchie, CJL

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by Wayne Winton

Back to Basics: How to Shim A Lock Cylinder

Learn to service a lock when you don't have the key

Our second installment in the new Back to Basics series will cover shimming a lock. This is part of lock servicing. If you (or your customer) do not have a key for a lock, this is a great way to start making a key.

We start by taking off the back clip or the retaining clip. Whatever is holding your lock, whether it is a cap screw or a retaining clip – just remove it out of the way. **(Photos 1 and 2)**

Photo 3 shows what the cylinder looks like and what the shear line is when we actually meet the shearline with the shim. It's important to understand all the functions of the lock.

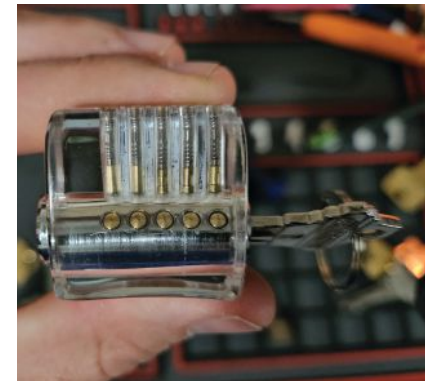
In **Photo 4**, we have an SC4 key blank. **Photo 5** shows our shim. A shim is a very thin piece of metal that will actually work itself in between the top pin and the bottom pin **(Photo 6)** and find the shear line automatically and hold it so you don't have to pick it the conventional way.

We need to make sure that the shim is directly in line with the top plug and with the bible and all the top pins **(Photo 7)**. **Photo 8** is a very close-up view of what that shear line looks like. In each pin stack, there is a dark line in between the two pieces of brass. That is the shear line and that is what the shim is quite literally "shimming" itself in between.

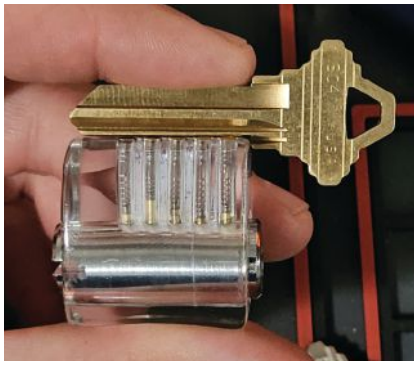
To watch the video, scan the QR code or go to https://www.youtube.com/watch?v=_Z9oMGFs7TQ

» Photo 1. Our lock cylinder

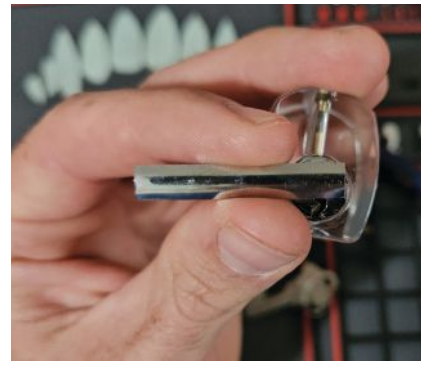
» Photo 2. Remove the retaining clip



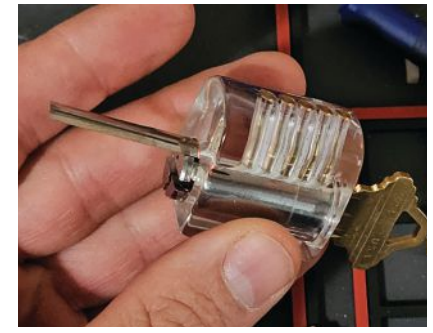
» Photo 3. A look inside the cylinder



» Photo 4. SC4 key blank

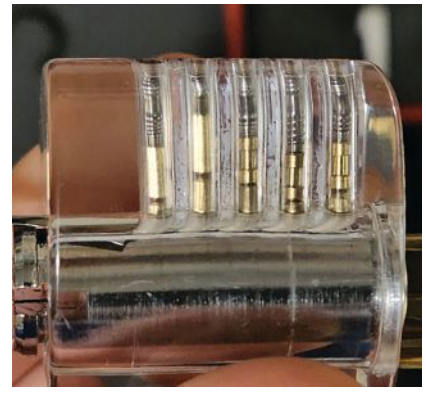


» Photo 5. The shim

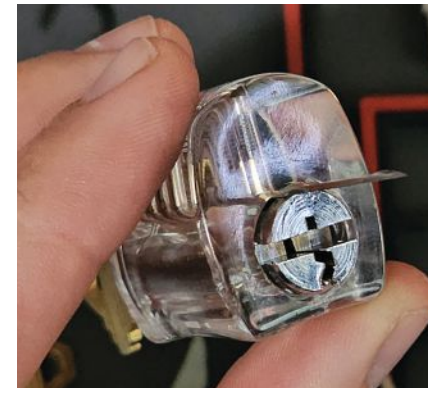


» Photo 6. Shim worksitself in between the top pin and the bottom pin

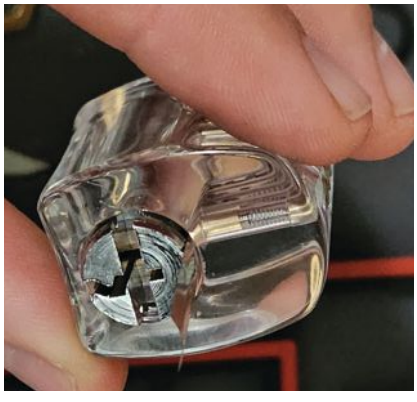
» Photo 7. Shim directly in line with top plug, bible and all the top pins



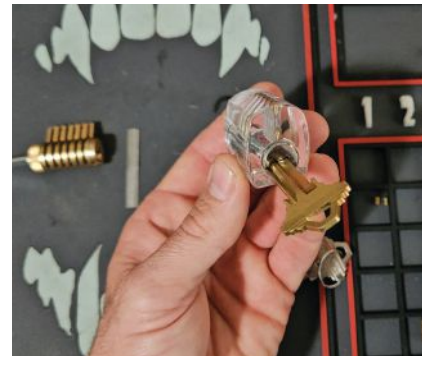
» Photo 8. Close-up view of the shearline



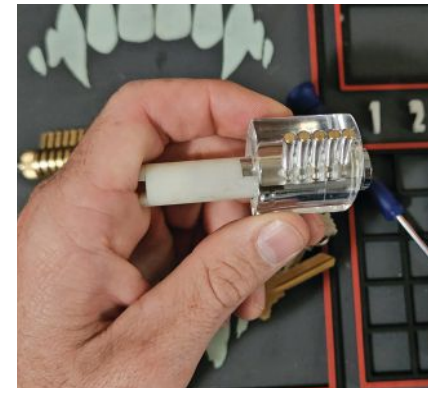
» Photo 9. Pins inside the lock shimmed



» Photo 10. Another angle



» Photo 11. Pins ride up the angle of the key and down as you're shimming the lock



» Photo 12. Turned over view

We've got quite a few of them shimmed now, probably three to four of the pins inside this lock are shimmed. **(Photos 9 and 10)**. The way this is working is the pins ride up the angle of the key and down as you're actually shimming the lock. **(Photo 11)**

Now we've got it turned over **(Photo 12)** and the way that those pins are riding up and down the angle, it eventually goes through all the different heights and depths. When it reaches the shearline, the shim slides in between the two pins because that's the only place it has to go. **(Photo 13)**

Photo 14 shows that you can leave the shim in place and put the follower into the lock and it will help prevent any accidental turning or rotation of the plug that was not intended.

Photo 15 shows a close-up view of the edge of the shim. When you encounter security pins, spool pins, t-pins or serrated pins, any top or bottom pins that have any grooves or cuts or marks on them will ruin a shim like this.

We are going to start this process again from start to finish. (See accompanying video) Our goal is to get the lock cylinder open without a key. However, for educational purposes, we do have a working key to show that the lock is functional. Notice that the angle of the key is moving all the pins to their maximum depths and maximum heights.

We start off by inserting the shim into the back side of the lock after any retaining clip or cap screw has been removed.

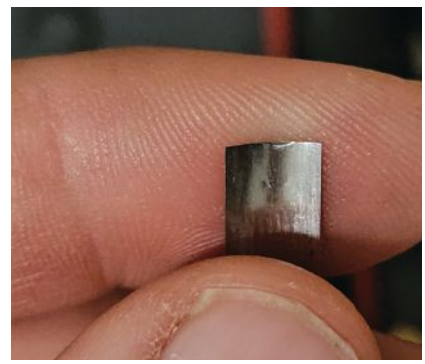
The shearline is that dark mark in between the two pins. Here I've got serrated pins. You can see the extra serrations in them **(Photo 16)**. In this case, only shim the lock on the downstroke against the bottom pin that does not have the serrations in it.

You can use the follower to help push the plug out so you don't accidentally lose any pins in that gap.

Wayne Winton is owner of Tri-County Locksmith Services, located in Glenwood Springs, Colo. www.wayneslockshop.com and www.lockreference.com

» **Photo 13. When it reaches the shearline, the shim slides in between the two pins**

» **Photo 14. Shim and follower**



» **Photo 15. Close-up view, edge of the shim**

» **Photo 16. Serrated pins**

Basic Training

Locksmith Ledger is excited to kick off our Back to Basics series, in partnership with Wayne Winton. This series is a great educational resource for new locksmiths and lockshop employees and can be a good refresher course for even veteran locksmiths. We recommend ordering a couple pizzas and gathering your staff around the computer during lunch to watch the included training videos.

In installment one, we started from the very beginning. The topic was "How to Rekey a Pin Tumbler Lock Cylinder." Read the article at **www.locksmithledger.com/53068086** and then click on the QR code to watch the video, which includes bonus information.

We also highly recommend checking out Winton's Locksmith Live series, starting with "What to Know Before You Become a Locksmith" at https://www.youtube.com/watch?v=XObEsAo0t7c. It contains some great advice on running your business successfully, avoiding legal pitfalls and protecting your company assets.

Stay tuned for further educational articles and videos and let us know if there's a top you would like us to cover.

Visit the Facebook Group Locksmith Nation (https://www.facebook.com/groups/LocksmithNation) to sign up for future Locksmith Live sessions, held on Monday nights at 4 p.m. Mountain.

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by Locksmith Ledger Staff

Become a Fire Door Inspector

Conducting fire door inspections can be lucrative for the commercial locksmith. You probably already have the skills and simply need the certifications. Thankfully, there are a variety of programs issuing those credentials.

Annual fire door inspections were introduced with the adoption of the 2007 Edition of NFPA 80. The newest standard requires that fire-rated doors be tested for functionality no less than annually and that a written record of the inspection be kept on file for the Authority Having Jurisdiction (AHJ).

The National Fire Protection Association (NFPA) defines a qualified inspector as "an individual who, by possession of a recognized degree, certificate, professional standing, or skill, and who, by knowledge, training, and experience, has demonstrated the ability to deal with the subject matter, the work, or the project, i.e. a commercial locksmith)." The building owner (your potential customer) is responsible for maintaining and keeping fire-rated assemblies in working order.

» **Stairwell door in office building**

Recent editions of NFPA 80 mandate the following information for the inspection report:

- Date of inspection
- Facility name and address
- Inspector name(s), company name, address, and signature
- Individual record of each fire door assembly inspected and tested, with unique opening identifier, location of assembly, and description
- Verification of visual inspection and functional operation
- List of deficiencies in accordance with the inspection criteria

The 13 inspection criteria currently required by NFPA 80 are:

- Labels clearly visible and legible
- No open holes or breaks in the surface of the door or frame
- Glazing, vision light frames, and glazing beads intact and securely fastened
- Door, frame, and all hardware secured, aligned, and in working order
- No missing or broken parts
- Clearance within the limits mandated by NFPA 80
- Closing device is operational and the door closes completely from the fully-open position
- Coordinator (pairs only) operates properly to close the inactive leaf before the active leaf
- Latching hardware operates properly and secures the door in the closed position
- No auxiliary hardware which interferes with proper operation of the assembly
- No field modifications have been performed that void the label
- Perimeter and meeting-stile gasketing are intact (if required)
- Signage attached to the door meets the limitations of NFPA 80 for size and attachment

Certification Programs

Locksmiths can become a Certified Fire + Egress Door Assembly Inspector (CFDAI) through the DHI's Fire + Egress Door Assembly Inspection program. Offered through a partnership with Intertek, Telcom (TISC) and the Door Security & Safety Foundation (DSSF), two levels of courses are available.

DAI600 - Fire and Egress Door Assembly Inspection: This class will teach students how to perform and record these inspections, as well as provide tips for interacting with building owners and AHJs. It requires an intermediate level of understanding of door, frame, and hardware products and applications, and applicable code familiarity to conduct inspections. Students completing the course and passing the exam receive the certification CFDAI – Certified Fire + Egress Door Assembly Inspector.

DAI300 - Fire Door Assembly Inspection - Technician Level Course: DHI also offers a technical level course that will be taught in-house by

your credentialed FDAI to train your employees to conduct in-field inspection of fire doors, under the supervision of an FDAI credentialed inspector. This course provides the technical knowledge and expertise to assist and support credentialed inspectors of swinging fire doors through all phases of the inspection process. Students completing the course and passing the exam receive a certificate of completion. Learn more about DAI300.

For more information, visit https://www.dhi.org/DHI/DHI/Education/FDAI-Program.aspx

ALOA held a two-day online Fire Door Inspection Certification Webinar in 2023, so check the ALOA calendar to see when it is offered again. More info: www.aloa.org

In early 2018, new company **Door Safety LLC** launched its fire door inspection certification program—Door Safety Inspector (DSI).

Check online at www.doorsafety.com for a long list of in-person classes and webinars.

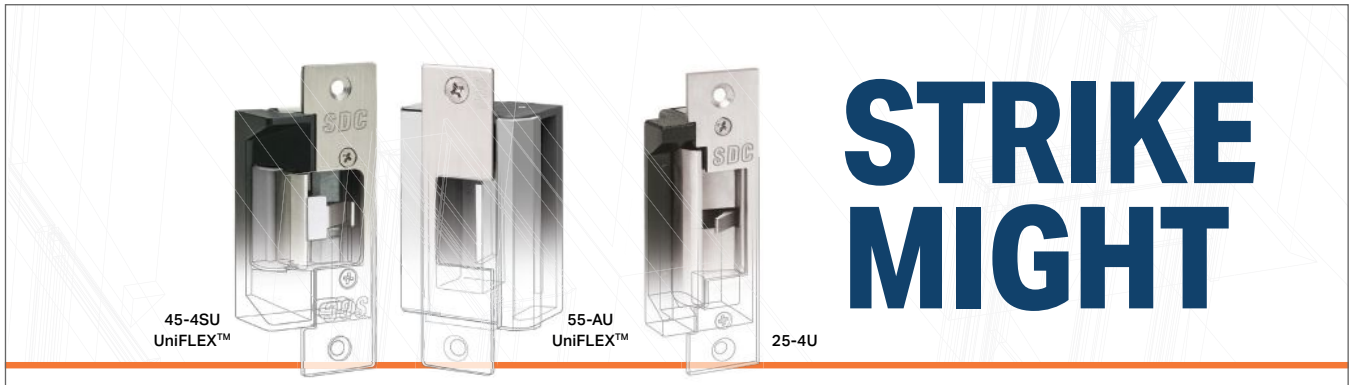
The **International Fire Door Inspectors Association** (IFDIA) offers several levels of classes. More info: https://ifdia.org/elearning/

In addition, the National Fire Prevention Association (NFPA) has its own NFPA Certified Fire Inspector Program. Visit https://www.nfpa.org/Learning-Paths/CFI for more information.

Know The Codes

NFPA 80 – Standard for Fire Doors and Other Opening Protectives (NFPA 101 7.2.1.15.2). The inspection of fire-rated doors and other protective openings and assemblies shall be inspected and tested in accordance with NFPA 80. This fire-door and opening protective standard defines the installation and maintenance requirements as well as allowances for field modification of fire doors. It also defines the annual inspection and testing requirements for fire doors and related hardware.

NFPA 105– Standard for Smoke Door Assemblies and Other Opening Protectives. The standard for smoke-control doors defines the testing, labeling, installation and maintenance of doors required by the codes for smoke-control openings.



STRIKE MIGHT

Back to Basics: Electric Strikes

In 1982, SDC's first electric strike design initiated the adoption of strikes by the door hardware industry. Then, we engineered the UniFLEX™ 45 and 55 series – the first electric strikes with interchangeable faceplates and field reversibility for failsafe or failsecure operation. The interchangeable design of these strikes allows SDC to also provide multi-application strike kits that include one electric strike and three faceplates to meet common applications, making them easy to stock and maintain in inventory. Today, our strikes integrate with a broad range of mechanical locksets, devices, door and frame styles and budgets. Since 1972 SDC products have been designed, engineered and built in America to provide quality products that are readily available.

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by Lee Odess, Chris Wilson, Manish Dalal

» Implementing a large-scale biometric deployment requires expertise in biometric technology, security and project management.

PHOTO: ISMAGILOV | BIGSTOCK.COM

Biometrics: From Theory to Reality

Steps for making large-scale biometric deployment for access control work

As biometric adoption continues to increase, it's crucial to understand how to implement a large-scale biometric deployment for access control. The global adoption of biometric technology in access control applications is a matter of when, not if, despite some challenges in North America. Today, the high-security industry must focus on safety and not just keeping bad people out, while still delivering conveniences with a larger value proposition. To deliver both security and convenience, converging biometrics with video and other biometric technology is the best way.

As experts in security, we can leverage technology to command the space we occupy with permission and trust to deliver comfort, convenience and additional value. To ensure that large-scale biometric deployments meet customer expectations and function as desired, they must be designed, installed, configured and managed correctly. In this article, industry experts and members of the Access Control Executive Brief, Chris Wilson, CSPM, Security Technology Market Leader at Mead & Hunt, and Manish Dalal, President and Founder of ZKTeco USA, collaborate to review factors to consider, as well as the necessary steps for a successful implementation in a large-scale deployment.

Factors to Consider

When implementing a large-scale biometric deployment for access control, several factors should be considered to ensure its effectiveness, security and efficiency.

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For aesthetically demanding applications that require a refined, low profile

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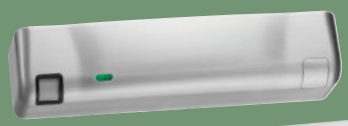
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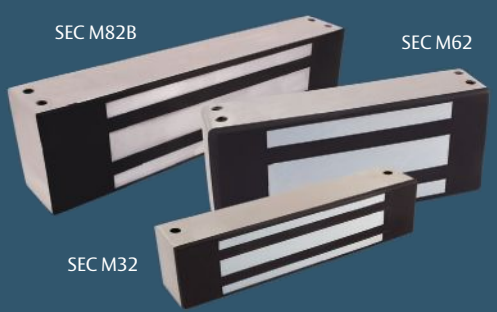

SEC M62

SEC MTK-32/62

SEC M32

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*Visit **Securitron.com** for complete product details and available installation and support tools.*

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"Large-scale access control has its own complexities but when you opt to add in biometrics, proper planning is a key to success. Working with your team, and bringing in subject matter experts as needed, will ensure that you get the best system for your needs. There are a lot of options available to clients today and getting it right is worth the effort" says Chris Wilson AT Mead & Hunt.

Here are some key factors to consider:

- ***Technology Selection:*** Evaluate different biometric modalities such as fingerprint, iris, facial recognition, palm recognition, etc., and choose the one that best suits your organization's requirements in terms of accuracy, speed, and ease of use.

- ***Scalability:*** Consider the scalability of the biometric system to handle a large number of users and access points. The system should be capable of accommodating future growth and expansion.

- ***Accuracy and Performance:*** Assess the accuracy and performance of the biometric technology under different environmental conditions, such as varying lighting conditions, humidity or physical obstructions. Ensure that the chosen biometric modality can provide reliable results in real-world scenarios. It's always a great idea to test the proposed solution, as proof of concept for the solution selected, prior to the full-scale rollout.

- ***Security:*** Biometric data is highly sensitive and should be protected with strong encryption and secure storage mechanisms. Evaluate the security features of the biometric system, including data protection during transmission and storage, as well as protection against spoofing or tampering attempts.

- ***Privacy and Legal Considerations:*** Understand and comply with relevant privacy regulations and legal requirements related to the collection, storage, and usage of biometric data. Implement appropriate policies and procedures to safeguard the privacy of individuals and ensure transparency in data handling. Especially relevant in large-scale deployments, be sure to consider all the regulations across all sites, including those in different states and countries. Each site could have its own local regulations and compliance with these is critical to prevent future fines or penalties.

- ***Integration and Interoperability:*** Consider the compatibility and integration capabilities of the biometric system with your existing access control infrastructure, such as card readers, turnstiles or door locks. It should seamlessly integrate with your overall security ecosystem including any other identity and access management platforms in place, especially if they need to share biometric data for authentication.

- ***User Acceptance and Convenience:*** Evaluate the ease of use and acceptance of the biometric system by end-users. Ensure that the enrollment and authentication processes are user-friendly and do not cause unnecessary delays or inconvenience. Oftentimes large-scale deployments are facing the need to enroll a large number of users, across many sites, and delays in enrollment and use can cause a significant friction point for the organization.

- ***Reliability and Availability:*** Implement redundant systems and backup mechanisms to ensure the reliability and availability of the biometric system. Consider factors such as system uptime, fault tolerance, and disaster recovery options.

- ***Training and Support:*** Provide adequate training to administrators, operators and end-users to ensure they understand the proper usage of the biometric system. Establish support channels and procedures for addressing technical issues or user concerns effectively. Please make sure that the installer has enough expertise to train the end users on following the best practices for enrollment and comply with the local privacy laws if they have access to the systems.

- ***Cost and Return on Investment (ROI):*** Assess the overall cost of implementing and maintaining the biometric system, including hardware, software, installation, training, and ongoing support. Evaluate the potential return on investment in terms of enhanced security, improved operational efficiency, and reduced costs associated with traditional access control methods.

Implementation Steps

Implementing a large-scale biometric deployment for access control requires careful planning and consideration of various factors.

Wilson adds, "As a security project manager it's paramount to lay out a plan before you execute. With biometrics, and the added complexity, it's even more important. Take the time to get a plan together with the team and the implementation will be much more successful"

Manish Dalal of ZKTeco USA, says "As a manufacturer of biometric readers and solutions, it is very important to educate the customer on what modality is best suited for them and understand that initial hard work of enrollment with best practices pays off in the long run."

Here are some important steps to follow:

1. **Define objectives and requirements:** Clearly articulate the objectives of the biometric access control system and identify specific requirements such as the number of users, locations and desired level of security.

2. **Conduct an operational assessment:** Assess the feasibility of implementing a biometric system in your organization by considering factors such as infrastructure readiness, budget, legal and regulatory compliance and user acceptance.

3. **Perform a risk assessment:** Identify potential risks and vulnerabilities associated with the deployment of the biometric system. Evaluate security measures to mitigate these risks and ensure data privacy.

4. **Choose the appropriate biometric technology:** Consider the available biometric modalities such as fingerprint, iris, face, or palm recognition. Select a technology that aligns with your requirements in terms of accuracy, reliability, scalability, and user acceptance.

5. **Plan infrastructure and integration:** Determine the required hardware infrastructure such as biometric scanners, cameras, and servers. Ensure that the existing IT infrastructure can support the deployment and integration of the biometric system with other access control components, such as card readers or door locks. Proactively notify the IT team of any new software or hardware that will be installed and will impact their environment.

6. **Address data privacy and legal considerations:** Understand and comply with data protection laws and regulations, ensuring that the collection, storage, and use of biometric data are in line with privacy requirements. Implement appropriate security measures to protect biometric data from unauthorized access or breaches.

7. **Develop a rollout plan:** Define a phased implementation approach considering factors like deployment timeline, enrollment, user training, and potential impact on existing operations. Prioritize high-security areas or critical access points for the initial rollout.

8. **Conduct pilot testing:** Test the biometric system in a controlled environment or a limited deployment to evaluate its performance, accuracy, and user experience. Gather feedback from users and make necessary adjustments before full-scale deployment.

9. **Enroll, train, and educate users:** Provide comprehensive training and education to users regarding the proper use of the biometric system. Often this can be done in a series of training sessions or at the point of enrollment of the user's biometric data. Address any concerns or misconceptions to ensure user acceptance and cooperation.

10. **Monitor and evaluate:** Establish monitoring mechanisms to track the performance and effectiveness of the biometric system over time. Regularly assess its accuracy, reliability, and user satisfaction. Implement maintenance and update processes to address any issues or emerging threats. If the organization has an existing vendor that holds a maintenance contract, ensure they are prepared to support these additional items when the warranty period concludes.

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11. **Establish contingency plans:** Develop contingency plans to address potential system failures, power outages, or other emergency situations. Have backup mechanisms in place to ensure continuous access control during such events. Ensure any of these newly deployed items are included in the disaster recovery and business continuity plans for the organization.

12. **Maintain compliance and continuous improvement:** Regularly review and update the biometric system to align with evolving security standards, regulatory requirements, and technological advancements. Monitor legal and privacy changes to ensure ongoing compliance.

It's important to note that implementing a large-scale biometric deployment requires expertise in biometric technology, security and project management. Engaging with experienced consultants or solution providers can help ensure a smooth and successful implementation.

Keeping Pace For the Future

The popularity of biometric technology in access control applications is rapidly growing, and its global adoption is inevitable. To meet customer demands for both security and convenience, biometric technology should be considered. However, as Chris and Manish outline in their article, a large-scale biometric deployment requires careful consideration of various factors, including technology selection, scalability, security, legal compliance and user acceptance. Implementing a successful and responsible biometric system requires expertise in biometric technology, security and project management.

Now is the time to start incorporating this discipline and technology on a scale that meets market demands. As our industry undergoes a digital transformation at an unprecedented rate and scale, it is critical to ask the experts in the industry to keep pace or even stay ahead of the market.

This article first appeared on www.securityinfowatch.com.

About the authors: Lee Odess is the CEO of the Access Control Executive Brief. Chris Wilson, CSPM, is the Security Technology Market Leader at Mead & Hunt. Manish Dalal, is President and Founder of ZKTeco USA.

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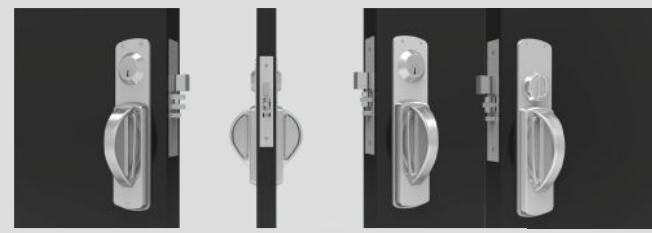

The MRX-A Escutcheon Trim allows you to easily upgrade the performance and safety of your ligature-resistant locking hardware.

MRX-A Features:

- **Larger escutcheon plate:** Conceal pre-existing holes in the door with an escutcheon plate that covers more surface area than the previous model and results in a revived, refreshed appearance.
- **Integrated cylinder and thumb turn:** Prevent lock tampering with a cylinder and thumb turn (if included) that are part of the escutcheon and thwart attempts to slip something between the escutcheon and the cylinder collar.
- **Ligature resistance:** Ensure safety and security both with 5-point ligature resistant stainless steel arch trim and tamper-resistant mounting screws.
- **Certifications:** ANSI/BHMA Grade 1, UL Listed. Meets BAA and ADA requirements, and is accepted by NYOMH for use in high, medium, and low risk areas.

For more information about this product, go to **www.townsteel.com/products/mrx-a** to learn more.

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Securitron DEM680E

The Securitron DEM680E delayed egress maglock is highly configurable, strong and easy-to-mount, ideal for use on interior and perimeter exit, single, outswinging doors. Designed for applications that require a lock that delays the opening of a door, the DEM680E standard model is HUGS-compliant with specific code-compliant models also available. Configurable settings include nuisance delay times, Irrevocable alarm times, Bypass delay times, No irrevocable alarm after bypass expiration, Building on the technology of the Securitron EcoMag Series, it is a direct replacement for the iMXDA.

Features include:

- Autosensing dual voltage with microprocessor technology – no field adjustment required
- Patented BondSTAT magnetic bond sensor and integrated Door Position Switch (DPS)
- Instant release circuit – no residual magnetism
- Easily visible LEDs indicate status on secure side of door
- Fully integrated delay and detection features for fast installation of delayed egress system
- Auto-calibrated door movement detection up to 1/4" [6.35mm]
- Alarm strobe indicates countdown; stays illuminated post alarm until reset
- Size optimized to work with door closers
- External alarm relay isolated dry contact (1 A at 24 VDC)

More info: www.securitron.com

» ***Request information: www.locksmithledger.com/21286159***

Camden CX-DE1200 Series

For delayed egress applications, Camden Door Controls offers the CX-DE1200 Series Exit Watch delayed-egress maglocks. The series includes a range of single-door (CX-DE1200) and double-door (CX-DE1220) models.

Exit Watch delayed-egress maglocks are UL listed and available in a range of models to meet NFPA, BOCA and local AHJ requirements. They also feature heavy-duty construction, 1,200 pounds of holding force and the option for voice or sounder annunciation, with an LED visual countdown timer.

Delayed-egress maglocks are supported with a range of mounting accessories, including filler plates and brackets. CX-DE1200 Exit Watch maglocks also are supported with a range of system accessories, including sounders, speakers, remote key switches and instructional signs.

More info: www.camdencontrols.com.

» ***Request information: www.locksmithledger.com/21276166***

Alarm Controls 1200DE

Safely postpone exit while alerting others on site with the Alarm Controls 1200DE Delayed Egress Maglock. Designed for applications that require a locking feature that delays the opening of a door, it is ideal in healthcare for patient safety, retail for loss prevention, and more. Secure interior and perimeter exit, single, out-swinging doors confidently and affordably.

This bracket-mounted, single magnetic lock with 1200 lbs of holding force can be easily installed without special tools. Integrated key reset, digital display, voice message countdown timer, and field configurable settings all come standard in a single unit, providing quality access control at a great value. Code-specific models are also available.

More info: www.alarmcontrols.com

» ***Request information: www.locksmithledger.com/53070939***

RCI DE8310 Maglock

The RCI DE8310 Delayed Egress all-in-one lock can detect when pressure is applied to a door and can be field selected with a release delay of 15 or 30 seconds. This perimeter door solution is unique in that there is no need to replace existing door hardware, making it an easy and affordable access solution.

The RCI DE8310 includes an external alarm sounder, keyswitch for reset and override, and a building code sign for single outswinging doors. The RCI DE8310-S includes a built-in sounder rather than the external sounder in the base unit. This electromagnetic lock series can be monitored locally or remotely through relay outputs. It is ideal for applications requiring loss prevention, life safety, and traffic control.

Features include:

- Built-in sensor detects when pressure is applied to outward swinging doors – no need to replace existing door hardware
- Field-selectable 15 or 30 second release delay with field-selectable 0 to 3 second nuisance delay
- Unique highly visible red/green light panel indicates status of door (local)
- Includes 960 Keyswitch for reset and override, Building Code Sign and base unit (DE8310) includes a 914 External Sounder
- Dry contact SPDT and DPDT relays provided for local and/or remote monitoring
- Keyhole mounting for ease of installation
- Convenient plug-in wiring harnesses
- Easy-access wiring cavity
- Stabilizing 4-bolt "drop stop" mounting
- Surge protection

More info: www.dormakaba.us

» ***Request information: www.locksmithledger.com/53071177***

SDC Delayed Egress Maglocks

SDC's delayed egress maglocks include the full-sized 1511 Series for single or double doors and the 1581 Series mini integrated delayed egress maglocks.

SDC's 1581S series mini delayed egress locks are designed to meet the needs of long term care and commercial facilities that require a smaller, less obtrusive, and less expensive delayed egress lock that is better suited for minimum security needs. Size matters.

Designed to delay egress through perimeter exit doors for 15 or 30 seconds, alert security and personnel to unauthorized egress, and are compatible with access controls and patient wandering systems. In addition, the subdued alarm is less disruptive to patients and staff.

The 1581S series locks can be utilized in single or double door applications. A remote key switch or access control must be provided to operate the reset and request-to-exit (REX) functions. For double door applications, order two 1581S locks with a tandem cable kit. The tandem cable kit enables slave operation, pushing either door leaf triggers the delayed release of both doors.

More info: www.sdcsecurity.com

» ***Request information: www.locksmithledger.com/53071165***

Schlage M490DE

The Schlage M490DE delayed egress electromagnetic lock is designed to meet NFPA 101 Life Safety Code while providing the same robust, easy-to-install, security of the M400 Series magnetic locks.

The M490DE has a 15-second delayed egress timer with audible alarm which can be configured to trigger by an internal "plunger switch," or by external contacts, such as a request-to-exit push bar.

All M400 Series electromagnetic locks are symmetrical with field-selectable handing, allowing optimum placement of the magnet no matter the application. They are designed to provide automatic voltage sensing for 12 and 24 volts along with polarity protection to make wiring less complex.

M490DE electromagnetic locks come in four configurations. Single- and double-door models are offered in standard configurations. Plus versions of these models with "P" designations add intelligent sensing and reporting features needed to integrate with access control systems.

More info: www.allegion.us

» ***Request information: www.locksmithledger.com/53070943***

by Bobby Varma

Campus IDs Go High-Tech

Campuses using biometrics as a credential

PHOTO: UNIVERSITY OF ALABAMA

» University of Alabama student center, an early adopter of mobile IDs

Security officials at higher ed institutions perform a delicate balancing act, keeping campuses secure while attempting to preserve freedom of movement for students and faculty. The risk of active shooters is on everyone's mind, as is a heightened awareness of personal safety, cyber threats and identity theft. Students and their parents want to see visible physical and network security measures in place. At the same time, they don't want the campus life experience diminished by inefficient and inconvenient identity management solutions.

Within the past decade, campuses have begun replacing or supplementing student ID cards with mobile credentials. Apple and Android phones now make it easy for students on participating campuses to use their digital wallets to store their student IDs. They can use their phone or watch to interact with access control readers, point-of-sale devices, online test-taking software, and in other scenarios requiring identity verification. In 2021, the University of Alabama became the first school to issue mobile IDs exclusively.

This trend is no surprise. Today's students are digital natives. They carry their phones everywhere and expect to use them for everything. They use Apple Pay and Venmo instead of credit cards. They prefer using digital tickets when attending concerts and sporting events or riding public transportation. They use apps to control the smart home technology they encouraged their parents to install. Why should school be any different? Plus, eliminating plastic cards is consistent with Gen Z's commitment to sustainability. Within the U.S., tens of millions of students are enrolled in higher ed. Imagine how many IDs end up in landfills each year.

However, despite all the benefits of mobile IDs, there are situations on campus when students must or would like to be separated from their devices, at least temporarily. For example, instructors may prohibit the presence of cell phones during exams. Students may find them inconvenient when engaging in certain athletic activities. Some coaches are banning the use of phones during games or practices because social media posts disrupt players' concentration and affect their morale. Students sometimes want to "unplug" for a few hours for mental health reasons. And what if a phone needs charging? A dead phone can't open a door or pay for lunch. Neither can a lost phone. A 100% reliance on mobile credentials is unrealistic.

Enter Biometrics

Colleges and universities have begun integrating biometrics with their campus credentialing platforms, adding a convenient, highly secure, and flexible means to verify and authenticate student identities. Depending on the application and specific setting, biometric identity technology can be deployed in different ways:

- As a choice for students to use instead of presenting a card or phone. Some manufacturers offer solutions that support all three options – biometric, mobile, and RFID – in a single-reader device.
- In conjunction with other modalities – like face and card – for high-security, multimodal authentication.
- In place of a card or mobile reader, for streamlined throughput in high-traffic locations or where other options are impractical. A glance at an iris reader can eliminate the need to carry anything.

College-age students overwhelmingly embrace the speed and convenience of biometric identity verification and authentication. 75% of 18-to-34-year-olds use biometrics with at least one app daily.

HES: the symbol of fire-rated safety.

Fire-rated doors and hardware work together to slow or stop the spread of flames and smoke in the event of a fire. With fail secure operation to maintain a safe path of egress and heavy-duty stainless steel construction necessary to withstand the intensity and duration of the fire.

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Universal Electric Strikes

ES100 Series Wireless Integrated Electric Strike

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5300 Series

Compact, high-performance solution for limited space applications with cylindrical locksets.

1006 Series

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1500 Series ™ | 1600 Series ™

The most advanced electric strike, offering dynamic integrated adjustability and field configurable options for cylindrical and mortise locksets.

Preload Capable Electric Strikes

7501 Series

Ideal for applications with preload conditions.

Concealed Electric Strikes

8300 Series | 8500 Series

Concealed, no-cut solution for cylindrical or mortise locksets.

Surface Mounted Electric Strikes

9500 Series | 9700 Series

Low-profile, surface-mounted, no-cut solution for exit devices.

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Allowing them to use biometrics on campus instead of cards or phones meets them in their comfort zone.

Security Applications

Of course, no solution is right in all conditions. It's necessary to consider where and how students will interact with the technology. Biometrics are unlikely to replace cards or phones across entire campuses, but they are ideal for some locations.

Adding biometric readers to exterior doors of residence halls, fraternities, and sororities ensures that students never get locked out and prevents credentials from being shared with others. For example, Phi Sigma Kappa at Purdue University and Sigma Phi Epsilon at Kansas State University each use fingerprint biometrics to secure their frat houses. Only residents can enter unescorted.

Alabama's Auburn University has relied on an iris-based biometric identity solution for over a decade within its athletic facilities. The solution is deployed to secure locker rooms and training areas, allowing student-athletes to move about freely while wearing pocketless uniforms, swimsuits, or workout gear.

Rob Stanford, Facilities Management Technology Specialist at Auburn, explains, "When students leave a team or graduate, we just change the permissions and turn off their access. We've had some coaches and students leave and return a few years later. We haven't had to re-enroll them. The system still recognizes them because their eyes don't change. We just reactivate their permissions." The solution can hold and differentiate between thousands of enrollees, including students on the teams, student trainers and managers, coaches, and others with job functions requiring access to regulated areas.

High-security areas like research facilities, labs, and data centers are prime locations for adding biometrics. Universities experienced a 44% increase in cyberattacks in 2022 compared to 2021. 99.9% of modern, automated cyberattacks can be blocked through multifactor authentication (MFI). Many security experts insist that biometrics are the most accurate and reliable form of authentication, making them ideal for MFI in physical and logical security applications. The University of Illinois and the University of Wisconsin use iris-based biometrics in conjunction with their lab facilities' access control systems.

COURTESY OF GETTY IMAGES – CREDIT: M-IMAGEPHOTOGRAPHY

» **India's Department of Higher Education has mandated that colleges and universities deploy biometric identity solutions to track student attendance and test-taking more accurately.**

Beyond Security

Biometric identity solutions are ideal for many non-security applications too. Stadiums, theaters, and cafeterias can offer "fast track" lines at entrances and cash registers. Healthcare clinics can immediately identify patients when they check in for appointments, reducing sign-in paperwork and ensuring accurate record-keeping.

They are also an excellent tool to thwart cheating on exams. The frequency of online cheating has increased 14-fold compared to the 15 months before the pandemic. Confirmed incidents include students attempting to take tests on behalf of classmates during proctored exams.

India's Department of Higher Education has mandated that colleges and universities deploy biometric identity solutions to track student attendance and test-taking more accurately. Classroom biometric readers log the identity of students as they enter, preventing an imposter from taking a student's place. American universities may soon embrace similar practices.

Ease of Deployment

Many of today's biometric identity solutions integrate seamlessly with other security, operations, and Point-of-Sale (PoS) platforms thanks to APIs allowing disparate systems to communicate. Campuses can preserve the value of existing technology while adding biometric readers to improve convenience. Students' biometric data is stored within a siloed, secure, encrypted database that links with the institution's primary identification platform. Should a network be compromised, there's no risk that a biometric can be reverse-engineered or traced to a student's identity.

Enrolling students is a simple process that any administrator can manage without special technical skills. Some biometric identity solutions even accommodate self-enrollment using the camera on a mobile device. Biometric solutions may be scaled up over time.

This article appeared in the July/August issue of Security Technology Executive.

Bobby Varma is the CEO/ Founder of Princeton Identity, a manufacturer of biometric identity solutions to streamline security, optimize operations, and control costs. She is a recipient of SIA's 2022 Women in Biometrics Award and a member of SIA Women in Security Forum's Power 100.

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Bauer RV Precut Sets

Framon's Blue Dog Keys division is now featuring Bauer RV precut key sets. These sets come in handy for locksmiths working on trailers with lost keys. These sets include all of the keys in each series listed below. The two Bauer sets are as follows:

BDBAUSET – Bauer RV301-RV360 Code Series - Black Head Keys
BDBAUSET2 – Bauer RV701-RV760 Code Series – Grey Head Keys

$85.00 Each

New Global Link Precut / Master Set

Framon's Blue Dog Keys division is now stocking the Global Link complete precut key set. This set includes one of each key in the G301-G390 as well as a Global Link change (BD986), master (BD985), and compartment key (BD1016). In addition, the set also includes several other compartment keys normally found on Global Link affiliated campers & RV's. Included are CH751 (BD467M), R001 (BD741M) and CK330.
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by Locksmith Ledger Staff

Automotive Training Opportunities

Automotive locksmithing has entered a new, high-tech era. No longer are locksmiths making a living by purchasing a few basic tools, unlocking cars and duplicating keys. In today's world of sophisticated electronics and pricey equipment, locksmiths need specialized training. Here are some options in the coming months. Please note that pre-registration (and often pre-payment) are required.

PHOTO: HONDA MOTOR CROP.

» 2022 Honda Fireblade

These are not the only options. Check with your local distributor and the manufacturers of your equipment for additional opportunities.

American Key Supply Locksmith Academy

Motorcycle Locksmithing, Oct. 20-21

Everything you need to know as an automotive locksmith is also what you need to become a motorcycle locksmith.

Win this class, AKS will illustrate the similarities between motorcycle key generation and other more common locksmith work. Topics will include building up your keys and inventory, selecting tools and equipment, and methods for successfully remaking lost keys for various types of motorcycles. Students will have the opportunity to cut several types of motorcycle keys throughout the class.

The main objective is to give locksmiths the knowledge and confidence needed to also work on motorcycles. Overcome the myth that motorcycle work is more difficult than cars through extensive hands-on training with examples of common locks seen in the field. We will be using the same and/or similar tools that the student will be using when they leave the class and begin to make these keys.

Taught by two instructors from different backgrounds, the class illustrates that there are always several ways to complete any job.

Brands of motorcycles covered include Honda, Suzuki, Yamaha, Kawasaki, Harley Davidson, Buell, Kymco, Triumph and others Popular ATVs and UTVs will also be covered. Information on where to start when considering servicing Transponder and Proximity systems for various brands of motorcycles will be included.

This is a two-day class including lecture, discussion, and hands-on work. The location is American Key Supply headquarters in Las Vegas.

Prerequisites:

- Familiar with cutting keys by code or bitting
- Knowledge picking wafer style locks
- Familiar with the use of hand tools
- Basic knowledge of automotive key generation

Topics Covered:

- Introduction
- Resources
- Harley Davidson Wafer Locks
- Gas Tank Lock Disassembly
- Lock Readers
- ATV/UTV Locks
- Asian-Style Ignition Disassembly
- Wafer Scoping
- Harley Davidson Tubular Locks
- Transponder & Proximity Systems
- Instructors are Keith Capehart & Leo Meres

More info: americankeysupply.com/education

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» The challenging Mercedes S class

PHOTO: MERCEDES USA

Automotive Keys Group Academy

Following is the fall training lineup from the Automotive Keys Group. Dates: Nov. 3-4 in Dallas. See registration info at https://akgacademy.com.

KR55 Key Maker for Mercedes Flip Key Programming, Nov. 3

Did you know that the Mercedes Dealer isn't able to offer almost all Flip Blade IR Keys to their customers any longer? You can open up a new revenue stream for your business by attending this four-hour class taught by Donnie Sherfield. You will be shown the ins and outs of the KR55 Key Maker and how to add-a-key and perform All Keys Lost on Mercedes Sprinters, ML Series, S Class, and Chrysler Crossfire vehicles that use an IR Flip Key. Outside of the OEM Factory Tool, the KR55 is the only device in the world that can program a working remote to these vehicles.

JLR Key Programming, Nov. 3

This class taught by Shon Mordehay will address keyed ignition Jaguar Land Rover (JLR) vehicles and the modules related to key programming on these vehicles. During this eight-hour class, you will learn where the modules are located, how to remove these modules, and how to program keys to the vehicles. We will also discuss PTS (Push To Start) JLR vehicles and their KVM modules. Demonstrations will be conducted with the VVDI2, VVDI Prog, VVDI Key Tool Plus, and Tango. JLR Key Programming can be complicated, but this class will help to take a lot of the mystery out of it.

ACDP BMW Key Programming, Nov. 3

New to BMW Key Programming or new to the Mini ACDP? Consider taking this 4-hour class taught by Donnie Sherfield. This class will walk you through all the needed steps

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9500 Series 9700 Series

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to program BMW Keys with the ACDP, including app and hardware setup. BMW CAS1-CAS4 Systems will be discussed and demonstrated. Gain the confidence that you need to add keys and perform All Keys Lost procedures on these BMW vehicles.

Hands-On EEPROM, Nov. 4
This class will be almost 100 percent hands-on. Students will break into groups of two while Donnie Sherfield instructs them on how to program keys via EEPROM during this eight-hour class. Each group of students will be provided with a laptop, VVDI Prog, Tango, and the same modules that the instructor has so that they can follow along and complete the task in real time. Modules to be reviewed include, but are not limited to, Toyota ECU, Saab CIM, Volvo Blue/Black Box, EWS3, EWS4, and Mercedes EIS.

VAG Key and Module Programming, Nov. 4
Tim Tracy and Charley Simpson will instruct this eighy-hour Volkswagen/Audi (VAG) programming class. Equipment to be discussed will include Abrites (AVDI), VAG Tacho, Ross Tech VCDS, and VW/Audi ODIS. Using this equipment, the instructors will take you through key programming and module replacement on vehicles using Immo 1 through Immo 5. Diagnostic scanning and the ability to understand what modules in a vehicle may have been replaced will also be discussed. Hands-on demos will be included.

PureAuto from Lockmasters

Key Generation, Oct. 6
This course offers the student an exciting opportunity to learn the skills needed to generate an automotive key. This extended hands-on portion of the class includes a wide variety of tools that will enable the student to experience success and gain confidence. Learn to sight-read keys, use scopes to read wafers, impression, use of Determinators, Kobra readers, AccuReaders, Lishi 2-in-1 tools, progressioning, keys by code and more. This course is recommended for the locksmith who wishes to expand into automotive locksmithing, or learn how to better exploit their key generation skills.

Advanced Automotive Transponders, Oct. 7
Keep up with the ever-changing world of transponders. This class covers transponder systems made since 1996, programming procedures, key blanks, and tools for most transponder-equipped vehicles in North America. This will include the newest procedures and key blanks for the newest models. Learn about the CAN Systems and new PROX systems as well as laptop-based programming options for some vehicles. Includes information on programming and troubleshooting: GM, Ford, Chrysler, Honda, Toyota, Mazda, Nissan, Mitsubishi, and VW/Audi.

Courses are at Lockmasters in Nicholasville, Kentucky. To register, call 866-574-8724. More info: www.lsieducation.com

Texas Locksmith Association Convention

Automotive classes are on tap at the Texas Locksmith Association's 2023 Convention, Oct. 25-28 in Austin. These include:

Oct. 26: Automotive Lishi, Hands-on Soldering
Oct. 27: VW Audi Group Key Making,
Transponder Adaptation
More info: www.texaslocksmithsassociation.org

UHS Hardware On-Demand Courses

The following recorded, on-demand training sessions can be purchased from UHS Hardware. For more information, visit https://www.uhs-hardware.com/collections/online-education

Auto 101 - Complete Automotive Locksmith Course
This class is designed to give a detailed overview of the Automotive Locksmithing process from start to finish using a variety of key cutting and programming tools like the Xhorse Dolphin XP-005, Xhorse Key Tool Max and KeyTool Plus, Autel IM508, KEYDIY KD-X2, and more.

Automatic Edge-Cut and High-Security Lishi
This self-paced course is made up of a series of lessons designed to familiarize participants with the anatomy and use of edge-cut and high-security Lishi tools.

Toyota System 2019+ Key Programming With Autel, Lonsdor & Key Tool Plus Course
This class is designed to give a detailed overview of the 2019+ New Toyota System Key Programming on a variety of different models using a few different programming machines. You will be covering adding a key using a dealer code, another key or an emulator in all keys lost situation.

BMW Key Programming Using Xhorse Key Tool Plus
This class is designed to give a detailed overview of the BMW Key Programming on a wide variety of different models using VVDI Key Tool PLUS Tablet - All In One Key Tool. You will be covering a few different systems like EWS, CAS, ISN and FEM/BDC. Depending on the model and year BMW you are working on, you will run one of these systems. Learning how read them, unlock them and add keys to them whether through soldering or the use of adapters will allow you work on a multitude of models starting from the first EWS System in 1993 to modern CAS 4/4+ today.

Automotive EEPROM And Advanced Key Programming.
This EEPROM course teaches locksmiths key programming and immobilizer bypass for modern vehicles. Through video lectures and demonstrations, students learn to use a wide range of tools and software like the VVDI Key Tool PLUS Tablet, Xhorse VVDI PROG, TANGO, and VVDI Mini PROG to read immobilizer data from vehicle ECUs and program transponder keys.

Lockmasters Acquires Allied Locksmith Supply

In an effort to expand its automotive and locksmithing product offerings, Lockmasters announces its acquisition of Allied Locksmith Supply, with long-time Allied Locksmith Supply employees, Jim and Anna, joining the Lockmasters team.

Allied is a distributor of approximately 9,000 automotive and commercial locksmith products consisting of automotive remote and transponder keys, locks, and related products as well as residential key blanks and accessories. The company has been in operation for over 40 years and is based out of Youngstown, Ohio. As of closing, Allied's operations have been successfully integrated into Lockmasters' headquarters in Nicholasville, Kentucky.

Lockmasters' customers will gain:

- Access to new manufacturers including: ASP, BlueDog, Howard Keys and Pro-Lok
- Over 5,000 new parts, including full lines from ILCO, STRATTEC and Lucky Line
- Vast assortment of stocked keys, remotes and automotive parts
- Specialized automotive and locksmith customer service representatives

"We are looking forward to carrying the torch on Allied's core automotive remote and transponder keys distribution business as the 40-year family owners transition into retirement. Now that all operations are integrated into Lockmasters and the product offerings have been made available on our e-commerce platform, we will be able to focus on delivering the best possible technical sales and rapid order fulfilment that customers have come to expect at both Lockmasters and Allied," said Joe McCormack, Lockmasters' CEO.

LTI and Q Security Acquire NL Lock

LTI and Q Security announce the acquisition of NL Lock, the brainchild of legendary inventor and entrepreneur Klaus "Nick" Gartner.

"I look forward to carrying on the Miller family tradition of innovation in and service to the security industry," said Clay Miller, CEO of LTI and Q Security. "Nick and I first worked together at Sargent & Greenleaf in the early 1970s and have remained close friends — and sometimes competitors — in the ensuing decades. Nick has always had a knack for seemingly simple yet elegant product design. Fewer parts mean fewer problems, as the NL Lock product line aptly demonstrates."

Following the sale of LaGard Inc., Gartner founded NL Lock in 2003 with a line of cost-effective, easy-to-use and easy-to-service electronic locks. Says Gartner, "I have always strived to produce high-quality security locks that will still be in service decades from now. Clay and his team have the knowledge and ability to continue my legacy."

Concurrent with the acquisition, LP Locks will merge with NL Lock. Susan Gartner Papa will continue to represent the brand as she has since 2007.

For further information, email Deanna DeBorde at deannad@locktechinc.com.

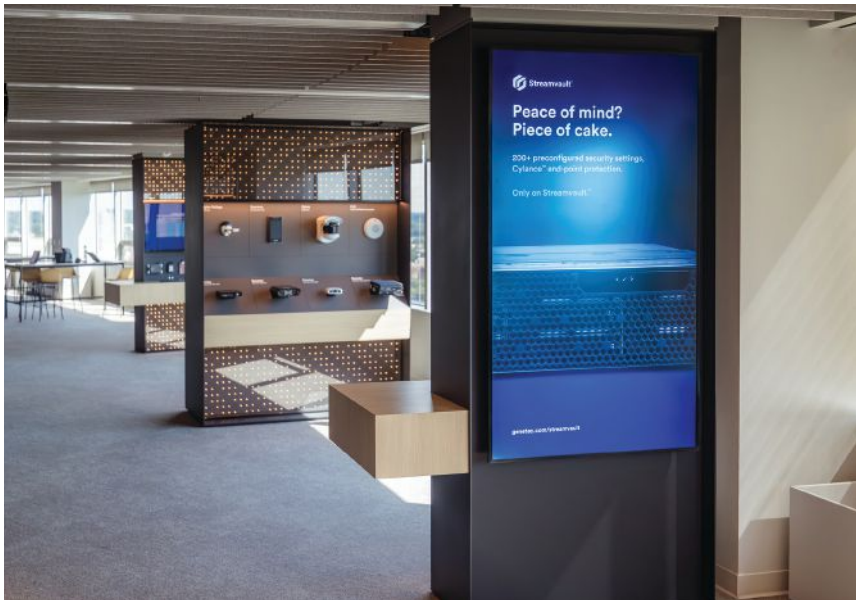
Paxton Access secures school activity center

School District Secures Activity Center with Paxton Net2

As an integral part of the Huntsville School District's future sports complex, the new activity center serves as the hub for student activities across the district. Located on a remote site that's home to the Huntsville Eagles Sports Complex, it will house the district's football and track stadium, baseball facilities, activity center, and other buildings that will be used to host activities and high school graduations.

Safety was the top priority when considering an access control solution. Having used Paxton's Net2 since 2015 on other school buildings, the district had a pretty good idea of what style and method of access control they wanted. Their main goal was to secure the premises while channeling people in and out of various activity center areas.

The district installed Paxton's Net2 access control solution, which is a user-friendly and flexible networked access control system. It is designed to make



» Genetec Washington DC security center

the management of any site straightforward and that's exactly what the district found when they installed and configured the system.

Net2 allowed the district granular control over its security, especially when it came to access control. They can manage who has access to certain doors at specific times. For instance, they can limit access to contractors who work from 7:30 a.m. to 5 p.m. with no access on weekends or evenings.

With the addition of PaxLock, the wireless, electronic battery-powered door handles have also been beneficial. The activity center contains specific areas where installing a traditional hardwired system is not convenient or feasible. PaxLock makes securing those areas easy.

Bailey Cotton, director of technology at Huntsville School District, said: "I appreciate everything Paxton has offered us in terms of security and access control. We highly recommend Paxton, and any time a school asks what we use for access control, we encourage them to explore Paxton because it's been such a great solution and experience for us. The flexibility of integrating other features and systems with Paxton is a no-brainer."

Visit www.paxton-access.com for more information.

Genetec Opens Washington DC Facility

» Genetec Inc., a leading technology provider of unified security, public safety, operations, and business intelligence solutions, has opened a new office and state-of-the-art experience center in Washington, D.C.

Named DCXC, the experience center showcases innovative solutions from Genetec and its large ecosystem of industry-leading technology partners. The on-site Technology Center operates as a fully functioning Security Operation Center (SOC), providing an immersive experience for customers in any industry to see how Genetec solutions can directly enhance their security and operations. Other features include a Learning Center for training, partner meeting spaces, and office space for the fast-growing Genetec US-based team.

"We look forward to welcoming channel partners, technology partners, and end users to our flagship Experience Center in the US. From the meticulous attention to detail to the full ecosystem of advanced technology, DCXC encompasses our renowned reputation for excellence and innovation," said Kyle Hurt, Area Vice President for US and Canada. "Visitors can explore our solutions and collaborate with our on-site team to discover how Genetec best meets their security and operational goals."

DCXC is the latest addition to the company's existing venues in Montréal, Paris, London, Mexico City, and Singapore. The beautiful design of the 25th floor DCXC is accentuated by a 180-degree view of the D.C. skyline overlooking the Potomac River.

"With the opening of our experience center in this strategic location, we're continuing to expand our global footprint to give our channel partners, technology partners, and end users an opportunity to experience first-hand the innovative technology and solutions that Genetec has to offer," said Michel Chalouhi, VP of Global Sales, Genetec Inc. "Our global experience centers are designed to give visitors a glimpse of the unique innovation that has set Genetec apart for more than a quarter of a century."

For more information on DCXC, visit www.genetec.com/a/dcxc.

Connected Technologies, Farpointe Data Forge Partnership

» Connected Technologies LLC, maker of the award-winning Connect ONE cloud management platform, has collaborated with Farpointe Data Inc. to streamline the management of Conekt Mobile Access Credentials.

Connect ONE simplifies intrusion, access control, video surveillance, critical environmental monitoring and energy management systems, with one platform and interface. Conekt consists of a line of mobile-ready readers and mobile access credentials, with mobile credentials carried in Farpointe's Conekt Wallet App.

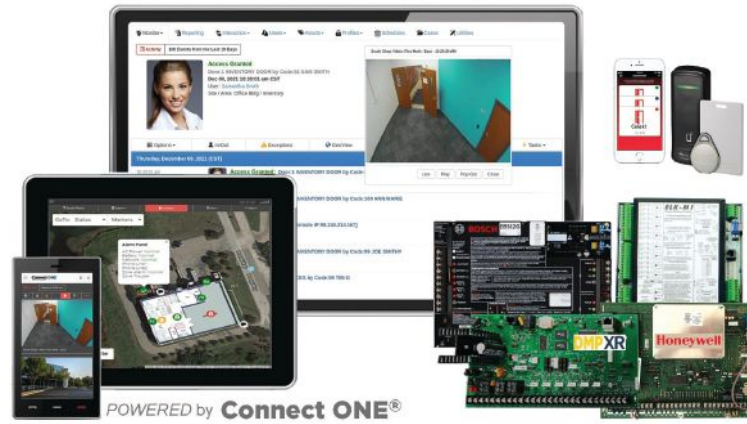
The Conekt Wallet App supports iPhone and Android mobile devices and uses Bluetooth Low Energy (BLE) to communicate the Conekt mobile credentials with Conekt mobile-ready readers. When activated within the app, Conekt mobile credentials allow users to identify themselves at designated access points with the existing standard electronic access control system.

"I'm excited about the value that this collaboration offers Connect ONE users and Farpointe's access control partners and their respective channels," said Francisco Alcala, North American sales manager, Farpointe Data. "Connect ONE streamlines

the enrollment and management of the Conekt mobile credentials while honoring Farpointe's access system manufacturer-based go-to market strategy."

This latest integration expands Connect ONE's smartphone access control, which includes ScanPass Mobile Credential (barcode-based without readers) and now Bluetooth-reader based Conekt, allowing for seamless user enrollment. Bluetooth readers may be used with traditional proximity cards and fobs as well.

Dealer/integrators who purchase Conekt mobile credentials and readers from their physical access control system manufacturers can use the supplied mass importation spreadsheet to seamlessly import mobile credentials into Connect ONE. The import simplifies enrollment since administrators now have an easy dropdown selection to assign a mobile credential to a new user.



» **Connected Technologies, Farpointe Data partnership**

Once a credential is assigned, the associated card number is automatically programmed into the access control system and Connect ONE sends an email or SMS message to the user with instructions on how to obtain the Wallet App and activate their credential. The Wallet App is a single-purpose app for their credential. No login is required, and it does not include any other functions to eliminate possible confusion. Credentials are purchased at a one-time cost, with no recurring fees.

"This integration is a unique and flexible solution that extends the possibilities of access control and Bluetooth connectivity without major upgrades and add-ons," said Dan Simon, Managing Partner, Connected Technologies. "Integration with the popular Conekt mobile credential is a simple approach to credentialing that doesn't require extensive programming for enrollment of users."

For more information on the new integration, visit Connect ONE, call (866) 976-3520 or email info@connectedtechnologies.us.

Request Information: www.locksmithledger.com/10210224

SIW Awards Scholarships

» The Security Industry Association (SIA) has named two recipients for the 2023 Denis R. Hébert Identity Management Scholarship, a program offering $5,000 scholarships for young professional SIA members to help further their education in the field of identity management. The winners for the 2023 Hébert Scholarship are **Colin DePree**, head of sales strategy, North America, at SALTO Systems, and **Constantine Tremouliaris**, integration solutions specialist, door security solutions, at ASSA ABLOY.

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» **Herbert Scholarships awarded**

goals of individual SIA members and student members who specialize in identity management.

DePree is a security industry veteran with a wealth of experience and a passion for improving the safety, security, health and happiness of communities through innovation and determination. Prior to joining SALTO, he held sales leadership positions at Pro-Tec Design and Floyd Total Security. DePree is an active SIA member who serves on the SIA Member Experience and Engagement Committee, formerly served on the SIA RISE Steering Committee and is still involved with the SIA RISE community and is a member of the SIA Women in Security Forum community.

"I am honored to accept this scholarship, as I know what Denis has done for this industry, and receiving recognition in his name is very humbling," said DePree. "Digital transformation is pervading through industries and sectors around the globe, and none more than access control and physical security. Access control is no longer purely about 'control' – it's now about enabling access to an experience. As we move from a pure control-focused approach to an experience focus, an individual's identity and authentication will become absolutely critical. I feel where the biggest unknown remains is who owns/manages/facilitates that identity, and I believe identity ownership and authentication of that identity will be a major obstacle that our industry needs to solve quickly to continue opening doors to opportunities."

In his role as integration solutions specialist at ASSA ABLOY, Constantine Tremouliaris serves as a business development overlay for a regional sales team, bridging the gap between access control software companies and hardware installers/distributors. His dedication and expertise have earned him recognition, most notably as the 2023 recipient of ASSA ABLOY's People Making a Difference Award and the Digital Access Solutions Player of the Year for 2022.

» **Lew Brown**

Tremouliaris' commitment to continuous learning and professional growth is evident through his active participation in certifications and educational seminars offered by SIA. One of the initiatives he is most passionate about involves advancing SIA's Open Supervised Device Protocol (OSDP) standard within his company. He is a member of SIA's OSDP Technical Subcommittee and is actively working towards utilizing OSDP not only for card readers but also for lock control and other peripheral devices at doors.

"What an absolute honor it is to receive a 2023 Denis R. Hébert Identity Management Scholarship! In the broader context of the security industry, current identity trends play a significant role in enhancing overall security. Two prominent trends that resonate with me are Increased Interoperability and Data Privacy. Achieving interoperability across the industry and reducing proprietary practices are crucial steps towards creating a safer and more open world," said Tremouliaris. "This collaborative approach, as fostered by organizations like SIA, allows industry stakeholders to collectively work towards common goals without dictating standards. SIA's role as a mediator ensures that the industry evolves together and addresses the challenges associated with identity management in a collaborative way."

» **DEN Smart Home**, creator of the first invisible, wireless communicating smart door strike – DEN SmartStrike™ – announces key personnel additions to their executive leadership team. **Lew Brown** has assumed the role of President of DEN Smart Home Inc., North America, and **Dennis Nijmeije**r has joined the company as Chief Financial Officer in the newly created Ankerslot Group.

» **Dennis Nijmeije**r

Brown joins the DEN Smart Home team offering a deep history of executive experience as a CEO, COO, President, VP of Business Development, and VP of Sales & Marketing throughout the consumer technology sectors, with extensive expertise in IoT products and services. In his role with DEN Smart Home Inc., Brown will lead and develop the strategic plan for the company including business and product development initiatives.

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Request Information: www.locksmithledger.com/10172820

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"I am energized to be part of the DEN Smart Home team; it is an exciting time for the company as we prepare for our official launch. I believe in the unique solution that the DEN SmartStrike offers to the market and our team is looking forward to connecting with attendees at CEDIA Expo to showcase how the DEN SmartStrike fits into their product portfolio," said Brown.

Joining as both a co-owner and Chief Financial Officer, of the parent company, Ankerslot Group, Nijmeijer has over two decades of finance experience most recently as a Finance Director at HSF Logistics. Robert Boensma, CTO and one of DEN's first hires has also been named as a minority owner in DEN Smart Home.

"Rounding out our executive leadership team was an important step forward," said **Marijn van der Wal**, founder and CEO of Ankerslot Group and its wholly-owned business unit, DEN Smart Home. "Having a highly talented team that is committed to our company goals will take DEN Smart Home to the next level. Between Lew's incredibly successful track record of bringing new products to market and Dennis' financial acumen DEN Smart Home is poised for exciting growth ahead."

» **After 31+ years with Napco Security Technologies** as Western VP, and later, Senior VP of Sales, **Dave Sheffey** will be retiring, having handed over the reins and team to VP **Michael Venoit** earlier this year. Sheffey has long been a key part of Napco security sales management, an industry icon and driver of Napco security sales and distribution channels.

Anyone who knows Sheffey, as most in the industry do, recognizes the amiable, modest, super-intelligent guy who is comfortable speaking to virtually everyone, and always knows how to get things done and with whom. Never one to shrink away from a challenge, Dave is extremely knowledgeable and well-versed in all aspects of technology, applications, and product (as well as science, astronomy, and fine art, too). Dave's extensive security experience and industry knowledge have served him, his accounts, and NAPCO well. But two of Dave's idiomatic phrases, sum up much of what may be his work philosophy, "I have a curiosity", and on the flip- side, "Don't poke a sleeping bear." For those of us who know Dave, the neat part is that he seemingly always knows which to apply and when.

After decades of representing Napco, attending countless tradeshows and events, and visiting and supporting security professionals and distributors, Sheffey is literally going to sail off (well, motor off) into the sunset of the Great Lakes on his boat, at least for a little while.

» **Camden Door Controls** has welcomed **Lanier Rep Group (LRG)** as its newest manufacturer's rep firm. LRG will broaden Camden's presence in Texas, Louisiana, Oklahoma, Arkansas, Missouri, Iowa, Nebraska, Kansas, Minnesota, and North and South Dakota.

"We are very proud to add Camden Door Controls to our line card of vendors," **John Swinford**, LRG CEO, says. "They're an industry-leading manufacturer of door activation and locking devices and bring a wealth of innovative offerings to market."

"Camden Door Controls is pleased to partner with Lanier Rep Group to service the low voltage and electrical distribution markets in the regions they serve," notes **Dave Malen**, Camden's co-founder and Chief Executive Officer. "We partner with knowledgeable sales representatives that complement our dedicated internal sales staff and are proud to welcome them to the Camden family of rep firms."

LRG can be reached at 409-384-4560 / sales@lanrepgroup.com.

For more information, visit www.camdencontrols.com.

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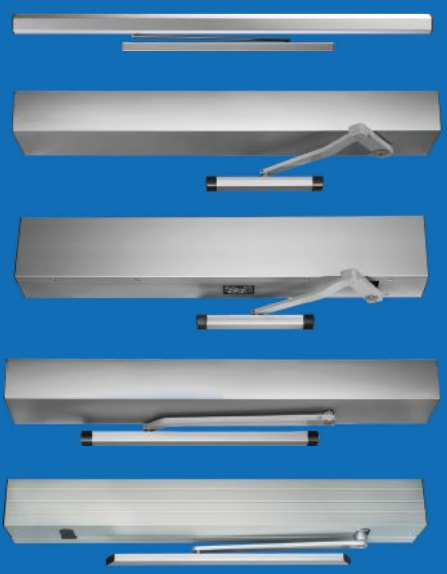

HA7

HA8-LP

HA8-SP

HA9

SS8200

Request Information: www.locksmithledger.com/12336966

» **NAPCO Security Technologies, Inc.**, Amityville, New York, has added **Tim Cahoon** as national training manager, reporting to VP of Sales, Napco Fire & Security, **Michael Venoit**.

Ideal for extending NAPCO's West Coast training support, based in Phoenix, AZ, Cahoon will be providing new product introductions and technical classes on Napco's full range of residential and commercial solutions, in person and online, These solutions include the award-winning Prima All-in-One Security/Connected Home/Automation Panel, StarLink Max 5G Cell/IP Communicators, FireLink FACU with built-in StarLink communicators and Napco-Access lines.

» Timothy Cahoon

Cahoon comes to Napco with 20+ years of experience in the low voltage security and life safety industry, in addition to one of distinguished U.S. military service. Contact him at email tcahoon@napcosecurity.com or phone 602-881- and/or register at www.napcosecurity.com/seminars.

» **AMAG Technology**, an Allied Universal Company, has named **Kyle Gordon** as Executive Vice President, Global Sales, Marketing and Commercial Excellence. The EVP will lead the sales, marketing and commercial excellence teams globally to optimize sales, drive company growth and exceed customer expectations.

"Gordon brings expertise, energy and enthusiasm to AMAG, and I am excited to have him on my leadership team," said AMAG Technology President **David Sullivan**. "His prior experience in managing a team of salespersons at a large integrator will enhance our ability to serve our channel partners more effectively. We look forward to leveraging this perspective into our customer-focused culture."

He will work with the director of commercial excellence to develop a dynamic technology partner program that sets the gold standard for delivering integrated building and business management solutions.

Gordon worked his way up at Stanley Security from Consultant to Vice President-US Sales and Marketing and was promoted to Senior Vice President-US Enterprise & Regional Sales when Securitas Technology acquired Stanley Security last year.

For more information about AMAG Technology, visit www.amag.com.

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DEN SmartStrike

The DEN SmartStrike is a unique solution that provides users with the best of both the analog and smart home world. Once installed, users can still use their traditional key to unlock their door or via the companion app (available for both iOS and Android), to easily, safely, and securely access their homes and businesses. Through the app, users can also create digital keys for family members, friends, and temporary guests.

One of the unique features of the DEN SmartStrike is that is it wireless. Powered by batteries and integrated with Z-Wave technology means the energy usage is low and batteries will last an estimated two years before they need to be replaced. In addition, as a Z-Wave-enabled device, the DEN SmartStrike is compatible with the largest, most diverse smart home and security ecosystem available (over 4,100 certified, interoperable devices). Future versions of the DEN SmartStrike will add Matter, Zigbee, and Wi-Fi connectivity to provide compatibility amongst all IoT networking platforms.In spring 2023, DEN launched a new authorized dealer program to provide exclusive pricing and prioritized order fulfillment to the professional channel.

More info: www.densmarthome.com/dealer.

» ***Request Information: www.locksmithledger.com/53070485***

Camden CV-7600 Card Readers

Camden Door Controls has relaunched its CV-7600 card readers in response to growing market demand for a more secure alternative to standard proximity credentials that can be easily cloned. CV-7600 readers support MIFARE DESFire EV1 & EV2 encryption technology credentials, making them virtually clone-proof and highly secure.

The CV-7600 mobile-ready readers combine Bluetooth Low Energy (BLE) and contactless smart card technologies and can be used with any access control systems with either Wiegand or bi-directional OSDP. An easily downloaded app instantly turns any Android™ or Apple iOS™ smartphone into the user's mobile access credential – with no subscription fee.

CV-7600 readers have a field configurable reception range from one to 30 feet and are backed by Camden's no-hassle three-year warranty.

More info: https://www.camdencontrols.com/products/CV_7600

» ***Request Information: www.locksmithledger.com/53070790***

ZKTeco Aura12 Smart Intercom

Aura12 is a stylish yet rugged weatherproof intercom system. It allows tenants to remotely control access to their building from the convenience of their phone. The two-way audio allows tenants to speak with visitors, while one-way video protects the tenants' privacy.

Features include:

- Easy installation and minimal maintenance costs
- Revenue sharing opportunities
- Cloud-based management console for easy account set-up
- Door camera access at all times
- Create visitor QR codes
- Facilitate package deliveries

More info: www.zktecousa.com/intercom

» ***Request Information: www.locksmithledger.com/53070793***

Krieger RF and Acoustical Hybrid Door

Krieger's new radio frequency (RF) and acoustical hybrid door is designed for installations where TEMPEST standards are required. The hybrid door provides 40 dB of RF shielding protection, and comes with a Sound Transmission Class (STC) 51 acoustical rating, which means loud sounds from outside can be only faintly detected, ensuring a high level of privacy and sound control.

Single or double hybrid doors are available in any size and configuration, and with manual or power-operated controls. Assemblies can be tied into any type of new or existing RF shielding construction. Krieger's unique RF seal provides a tight seal while dramatically increasing the life of the door and reducing maintenance costs.

Krieger's standard and custom-engineered frame profiles complement any wall construction or architectural style, and come with a threshold that meets the Americans with Disabilities Act (ADA) requirement of ½" without a portable ramp. Custom finish options include wood veneer, prime painted, stainless steel, specialized moldings, and more.

More info: www.KriegerProducts.com

» ***Request Information: www.locksmithledger.com/53070957***

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Compatible Receiver
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Traka Touch Pro

Traka announced the launch of a line of intelligent key cabinets designed for more flexibility, improved simplicity and 100% sustainability. The Traka Touch Pro series incorporates the proven technology of the Traka Touch key cabinet line and takes it to the next level of innovation in electronic key management systems.

The Traka Touch Pro line comes in four sizes to suit customer demand and builds upon the strong foundations of its predecessor, Traka Touch, with enhancements in the following areas:

New mechanical design elements further enhance the security, durability, and life of the product

Adjustable Traka door hinges are tested to over 1 million cycles and are recessed to reduce vulnerability from attack

More storage capacity ensures larger key sets can be accommodated across all systems

More information: www.traka.com

» *Request Information: www.locksmithledger.com/53070483*

HID FARGO Connect

The HID FARGO Connect, paired with the HID FARGO HDP6600 card printer, is a cloud-based card issuance platform. This integrated system simplifies secure card issuance by streamlining operations and increasing control. It eliminates the need for toggling between applications and reduces costs while enabling scalability. Users can design, personalize, and issue ID cards remotely. Real-time dashboard allows full printer control, ensuring proactive maintenance. Its Secure Print feature enables secure encrypted print jobs, eliminating card shipping concerns. This solution offers end-to-end encryption of sensitive card data and supports superior-quality, multifunctional secure identity credentials.

More info: www.hidcorp.com

» *Request Information: www.locksmithledger.com/53071333*

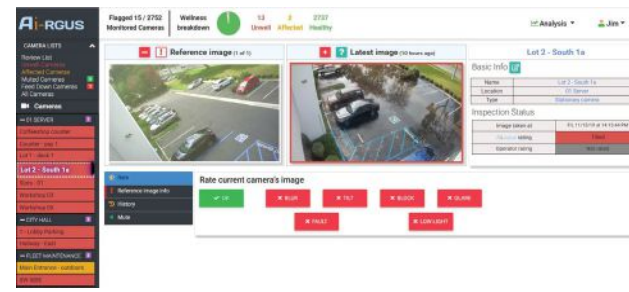
CI Series Intelligent Key Cabinets

Designed to be robust, reliable and affordable, CI Series cabinets from ASSA ABLOY Critical Infrastructure can be customized to fit a range of facility applications – ranging from 32 to 288 keys per cabinet – and can easily be expanded to more than 2,000 total keys.

Available in both wall-mount and free-standing options, the cabinets feature 16-gauge steel construction to support heavy use. It gives you a complete audit trail, situational awareness of a customer's keys, and locking hardware assets. It's reliable, robust and ready.

More info: https://www.abloy.com/global/en-us

» *Request Information: www.locksmithledger.com/53070484*



Ai-RGUS Video Software

Ai-RGUS, the artificial intelligence (AI) software company helping organizations protect multi-million dollar investments in security cameras, introduces its AI software solution designed to simplify and automate security camera system health, cybersecurity, and efficiency. Ai-RGUS monitors all cameras within a security system to alert users if the image is blurred, blocked, tilted, damaged, etc. This allows camera operators to be proactive about fixing the problem immediately and not risk having a faulty camera when it's needed. The Ai-RGUS solution automatically catches camera view problems including problems due to blur, block, tilt, glare, or low light; camera/NVR/DVR misconfigurations or failures; incorrect timestamp; and missing or not enough days of recordings. With Ai-RGUS, users can also manage camera passwords and firmware version updates.

More info: Ai-RGUS

» *Request Information: www.locksmithledger.com/53070481*

STI's EnviroArmour Enclosure Line

STI's diverse enclosures in a range of sizes offer mounting flexibility, climate control options and power distribution choices to help decrease costs, while also protecting against the elements.

The wireless friendly, non-metallic NEMA 4X fiberglass and polycarbonate EnviroArmour Enclosures protect vulnerable security equipment against harsh weather conditions as well as vandalism, tampering and theft. they are designed for use with control panels, medical equipment, alarm panels, wireless equipment, thermostats, NVRs and telecom.

A variety of sizes and options are available in both models. The fiberglass enclosure offers a choice of a clear or opaque door and is resistant to chemical agents and helps guard against harsher environments. The polycarbonate enclosure has a tinted or opaque door. Both have a removable door that is lockable or screw-down.

More info: www.sti-usa.com/gsx18

» *Request Information: www.locksmithledger.com/53070486*

SALTO Space

SALTO Space is a fully integrated, standalone, wire-free, smart-locking platform with a web-based software management system. It allows for seamless access to every door and lock in any building, facility, campus, or field location in an efficient, flexible, safe, and secure way. Space provides an on-premise, smart access control platform that is designed to work in a wire-free environment, eliminating the need to hardwire doors or other access points within a building or worksite. This allows users to retain their original doors and locks. This flexible platform is designed to grow with your business, allowing for up to 4,000,000 users and 65,000 access points.

More info: www.saltosystems.com

» *Request Information: www.locksmithledger.com/53070482*

Viking Electronics X Series

The Viking Electronics X-Series video entry system provides HD video and voice communication for SIP VoIP phone systems and service providers. The X-Series features a built-in HD video camera with H.264 video compression, low light sensitivity, and a wide viewing angle. Dual 1080p video streams can be viewed on a desktop monitor or IP video phone, with data stored locally on an NVR or remotely with a cloud storage provider.

A built-in auto dialer activates when the LED call button is pressed and will cycle through up to 5 pre-programmed phone numbers on busy signal or no answer. The X-Series features an onboard relay with settings for access control, activating lights, or triggering door chimes and other relay-activated devices. The X-Series is PoE-powered and connects using an RJ-45 connection with CAT-5e cable. The line is available in several different chassis styles, flush or surface mount configurations, and a variety of finishes.

More info: https://www.vikingelectronics.com/products/x-series/

» *Request Information: www.locksmithledger.com/53070466*

Ilco Motorcycle Key Blanks

Ilco has added to its motorcycle key lineup. The following key blanks are now available.

- **Harley Davidson:** X287/HYD15, X283/HYD16, X284/HYD17, X285/HYD18 and X286/HYD19
- **Honda motorcycles:** X291/HD114, HD117-P and X289/HD118
- **Triumph:** X288/TMC3
- **Yamaha:** X290/YH65 Yamaha
- **Hyundai/Kia:** KK12-GTS Look-Alike Shell
- **Master Lock:** MA3 Master

In addition, Ilco has added emergency keys for Ford, GM, Acura, Dodge, Toyota, Chrysler/ Lincoln and Subaru models, listed in Key News 13-3.

More info: www.ilco.us

» *Request Information: www.locksmithledger.com/53070493*

» OCTOBER

Oct. 17-18: Securing New Ground, New York City. More info: https://sng.securityindustry.org/

Oct. 20: IDN-H Hoffman Chicago Trade Show.
More info: www.idn-inc.com

Oct. 20-22: MLA Expo, Europe's largest locksmith convention, Telford, England.
More info: www.locksmiths.co.uk/mla-expo/visitor-info/

Oct. 25-26: Security Canada Central, Toronto Congress Center, Toronto, Ontario. More info www.securitycanada.com

Oct. 25-29: Yankee Security Convention, Springfield, Massachusetts. More info: www.yankeesecurity.org

Oct. 25-26: DHI ConNextions 2023, Boston. More info: www.dhiconnextions.com

Oct. 25-28: Texas Locksmiths Association 2023 Conference, Austin, Texas. More info: https://texaslocksmithsassociation.org/convention/

» NOVEMBER

Nov. 3-4: AKG Locksmith Academy Automotive Training, Dallas. More info: https://akgacademy.com/

Nov. 8-10: IML Nevada Expo, Las Vegas. More info: www.imlss.com

Nov. 14-16: ISC East, Javits Center, New York City. More info: www.discoverisceast.com

Nov. 18: Louisiana Life Safety & Security Association Annual Conference, Pontchartrain Center, Kenner, Louisiana. More info: https://llssa.org/convention

» 2024 PREVIEW

April 9-12: ISC West 2024, Las Vegas. More info: www.discoverisc.com

April 24-27: Safetech 2024, Tulsa, Oklahoma. More info: www.savta.org

April 29-May 3: 2024 SHDA Industry Advancement Summit, Nashville, Tennessee. More info: www.shda.org

July 22-28: ALOA 2024, South Point Hotel & Casino, Las Vegas. More info: www.aloa.org

Sept. 23-25: GSX 2024, Orlando. More info: www.gsx.org

» ONGOING

Allegion Training: us.allegion.com/en/home/training.html

Alarm Lock and Marks USA Training: www.alarmlock.com/seminars and www.marksusa.com/seminars

American Key Supply Locksmith University: https://www.americankeysupply.com/pages/las-vegas-locksmith-university-lvlu

ASSA ABLOY Academy: www.assaabloyacademy.com/en/americas/

Detex webinars: www.detex.com/upcomingtraining/

dormakaba training: www.dormakaba.com/us-en/support/training

Mul-T-Lock Academy: www.mul-t-lock.com/us/en/mtl-academy

Paxton Access: www.paxton-access.com/us/training/

SALTO Systems: saltosystems.com/en-us/news/salto-certified-training-program-2022/

To submit your events, email: epike@endeavorb2b.com

School & Campus Security & Safety Month Webinars

Endeavor Business Media's Security Group, the Partner Alliance for Safer Schools (PASS), and the American School & University, the leading brand for K-12 and higher education facilities managers and decision-makers, invite you to participate in a unique educational collaboration.

The editorial experts of Security Technology Executive, Security Business and Locksmith Ledger magazines, along with our partnering publication American School & University magazine and The Partner Alliance for Safer Schools (PASS) affiliated websites have created a unique learning and peer-sharing opportunity for security, risk, administrative and law enforcement professionals in the K-12 and College/University campus environments

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The Campus Security/Safety Webinar Series will consist of three \ one-hour online Webinars, a one-hour Video Roundtable, and Executive Summaries in our digital supplements.

1: WEBINAR Oct. 10
Emergency Preparedness: Active shooter prevention, mass notification, evacuation and more. – (Hosted by PASS & SIA)

2: WEBINAR Oct. 17
Building Security: Access control, video surveillance, panic alarms, lockdowns, vulnerability assessments and more.

3: WEBINAR Oct. 24
Community Engagement: School security starts with clear communication among administrators, teachers, parents, students, SROs and first responders. -- (Hosted by PASS & SIA)

4: VIRTUAL EVENT Oct. 31
Lessons Learned: A Security & Risk Roundtable on Campus Safety – Beyond the Active Shooter Mindset

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10 YEARS AGO

Healthcare security was our cover focus in October 2013. Locksmith Ledger looked at cabinet locks that were code-compliant. Models discussed included **ASSA**, **CCL** and **Olympus** mechanical locks and **CompX** and **HES** electro-mechanical options. Today, the options have grown to wireless electronic locks operated by smartphones, badges and other credentials. In "The Cure for Hospital Safety and Security," **Ingersoll Rand's** Ann Geissler Timme provided a comprehensive overview of hospital door hardware. Another article looked at delayed egress options for hospitals, aimed at nurseries, psychiatric wards and or Alzheimer's units. Jerry Levine wrote about "The Where, Why and How of Ligature Resistant Locks." Lori Greene took a first look at a new code category – special egress locks. Gale Johnson wrote about the development of long-reach car-opening tools (rarely used today). Classroom and Lockdown Security Solutions from **ASSA ABLOY** were outlined in another article. **Medeco's** Dale Bowman introduced its Site Survey Wizard, an early smartphone app for conducting site surveys.

20 YEARS AGO

Tim O'Leary offered methods for integrating electronic hardware into a building security plan. O'Leary also provided information on the latest keypads, card readers and biometric products for access control. Jerry Levine covered the latest available transponder programming equipment. Gale Johnson introduced readers to some new electronic products made by **Rutherford Controls** (now a dormakaba brand). Rod Oden provided a wide-ranging article on large format interchangeable core locks. Jerry Levine wrote a special report on mortise locksets. Another special report showed how to program the Sentry key system of a Chrysler Sebring convertible. Gale Johnson successfully opened an unusual Murphy Door Bed safe. Steve Kaufman wrote an article questioning whether locksmiths should be selling import lock products. Levine announced the arrival of the **STRATTEC** cloning tool. Tiny fit a dimple ignition key to a rare 1999 Excelsior-Henderson motorcycle. Kaufman interviewed Ron Tameris, an electronic lock system specialist with **Clark Security** (now **Wesco**).

» **A look back at the 2013 Ford F-150, with a starting price of $26,175**

This Month in History

We provide some history on costs of the basic goods locksmiths needed 10 and 20 years ago, including gas, home loans, vehicles and wages.

October 2013 costs and economic indicators:

- Unemployment rate is around 7.2 percent
- A gallon of gas averages $3.34
- Interest rates on a 30-year mortgage averaged 4.27%
- The average U.S. home value was $268,000
- Minimum Wage was $7.25/hour
- A new 2013 Ford F150 Regular Cab had a starting sticker price of $26,175

October 2003 and economic indicators:

- Unemployment rate topped 10%
- A gallon of gas averages $1.58
- Interest rates on a 30-year mortgage averaged 5.92%
- The average U.S. home value was $195,000
- Minimum Wage was $5.15/hour
- A new the 2003 Ford F-150 Regular Cab had a starting sticker price of $21,450

The Back Page and You!

If you come across a story that you would like to see on the Back Page, feel free to send it in! Please send all responses to: pragusa@endeavorb2b.com and epike@endeavorb2b.com with the header Attn: Back Page

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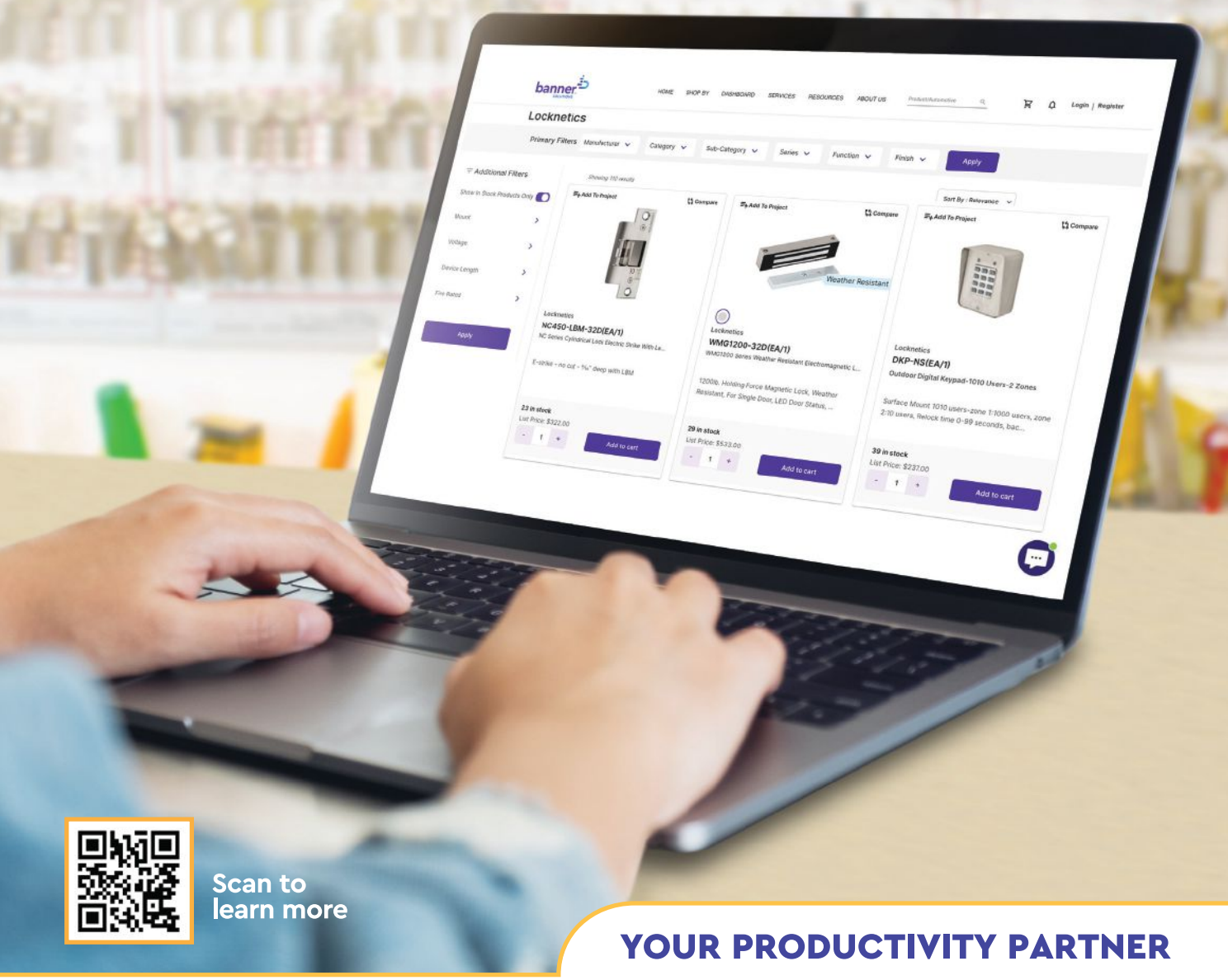

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